BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							Modified Schedule B quantity	49.00			
							DPQ paid in 3rd RA Bill	49.00			
							Now to be Paid Quantity	Nill			
Item No.96		Supply, installtion, testing and commissioning of STARTING BLOCKS FIBREGLASS 400 mm height non slip finish 0.5x 0.5m with nos 1 to 9 with anchoring fixtures directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.97		Providing and fixing of white colour vitreous China clay,water closet European type (pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,PVC flush cistern (all are approved make) with fitting CI/MS brackets, 40mm diameter flush bend with fittings and clamp, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no74,It no.12.5)									
Measurements taken on											
		Present Bill Measurements									
		Ground Floor	Nos	5				5.00			
		First Floor	Nos	3				3.00			
		Second Floor	Nos	2				2.00			
							Total Executed Quantity	10.00			
							Modified Schedule B quantity	10.00			
							Now to be Paid Quantity	10.00	5540.00	55400.00	
Item No.98		Providing and fixing of white colour vetreous China clay flat back. lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, CI /MS brackets, standard flush pipe and CP brass spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11(P.no 75,It no.12.7)									
Measurements taken on											
		Present Bill Measurements									
		Ground Floor	Nos	3				3.00			
		First Floor	Nos	3				3.00			
							Total Executed Quantity	6.00			
							Schedule B quantity	5.00			
							Quantity upto125%	6.00			
							Now to be Paid Quantity				
							Quantity upto125%	6.00	3204.36	19226.00	
Item No.99		Providing and fixing of white colour vetreous China clay flat back wash basin size 630x450mm with a single 15mm CP brass piller tap with CI / MS brackets, 32 mm CP brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no78 It.no.12.24)									
Measurements taken on											
		Present Bill Measurements									
		Ground Floor	Nos	2				2.00			
		First Floor	Nos	6				6.00			
		Second Floor	Nos	2				2.00			
							Total Executed Quantity	10.00			
							Modified Schedule B quantity	10.00			
							Now to be Paid Quantity	10.00	3247.56	32476.00	
Item No.100		Providing and fixing 600x450mm bevel lead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with CP screws, washers, including cost of materials, labour complete as per specifications.(P.no 79,It no.12.39)									
		Item Not Operated									
Item No.101		Providing and fixing C.P brass towel rail 740mm length, 20 mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specification.(P.no 80,It no.12.45)									
		Item Not Operated									

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

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Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.102		Providing and fixing 15mm dia Bib Cock									
Measurements taken on											
		Present Bill Measurements									
		Ground Floor	Nos	2				2.00			
		First Floor	Nos	9				9.00			
							Total Executed Quantity	**11.00**			
							Modified Schedule B quantity	**11.00**			
							Now to be Paid Quantity	**11.00**	**180.00**	**1980.00**	
Item No.103		Providing and fixing Brass Union 15mm nominal bore with PVC Connection pipe 300mm length									
								Item Not Operated			
Item No.104		Providing and fixing in position brass stop cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 20mm nominal bore									
Measurements taken on											
		Present Bill Measurements									
		Ground Floor	Nos	19				19.00			
		First Floor	Nos	14				14.00			
		Second Floor	Nos	8				8.00			
							Total Executed Quantity	**41.00**			
							Schedule B quantity	**30.00**			
							Quantity upto125%	**37.50**	**172.80**	**6480.00**	
							Quantity above 125%	**3.50**	**155.31**	**544.00**	
Item No.105		Providing and fixing in position brass bib cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 15mm nominal bore									
Measurements taken on											
		Present Bill Measurements									
		Health Faucets									
		Ground Floor	Nos	5				5.00			
		First Floor	Nos	3				3.00			
		Second Floor	Nos	2				2.00			
							Total Executed Quantity	**10.00**			
							Modified Schedule B quantity	**10.00**			
							Now to be Paid Quantity	**10.00**	**249.48**	**2495.00**	
Item No.106		Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe									
			m								
		Vide Total executed Quantity from premeasurement Page no. 07						**436.50**			
							Total Executed Quantity	**436.50**			
							Schedule B quantity	**150.00**			
							Quantity upto125%	**187.50**			
							Quantity above 125%	**249.00**			
							DPQ paid in 4th RA Bill	**148.50**			
							Now to be Paid Quantity				
							Quantity upto125%	**39.00**	**178.20**	**6950.00**	
							Quantity above 125%	**249.00**	**178.20**	**44372.00**	
Item No.107		Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 50mm nominal OD Pipe									
			m								
							Total Executed Quantity	**10.00**			

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CONTRACTOR

PRUDHVI PRASAD CONSULTANTS BANGALORE

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

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Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Modified Schedule B quantity						10.00			
		DPQ paid in 4th RA Bill						10.00			
		Now to be Paid Quantity						Nill			
Item No.108		Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 100mm Nominal OD Pipe									
			m								
		Total Executed Quantity						10.00			
		Modified Schedule B quantity						10.00			
		DPQ paid in 4th RA Bill						10.00			
		Now to be Paid Quantity						Nill			
Item No.109		Providing and fixing water meter with stop cock, jam nut, socket in G.I pipe line including cutting and threading the pipe and making long screws including cost of all materials, labour , HOM of equipments and testing complete as per specificationsKSRB(Pag no 88. Itm 13.22)									
		Item Not Operated									
Item No.110		Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm nominal Dia									
		Item Not Operated									
Item No.111		Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.50mm Nominal Dia									
Measurements taken on											
		Present Bill Measurements									
		Ground Floor									
			Nos	15				15.00			
		Total Executed Quantity						15.00			
		Schedule B quantity						4.00			
		Quantity upto125%						5.00	2216.16	11081.00	
		Quantity above 125%						10.00	1915.49	19155.00	
Item No.112		Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm dia									
Measurements taken on											
		Present Bill Measurements									
		Ground Floor and Terrace									
			Nos	10				10.00			
		Total Executed Quantity						10.00			
		Schedule B quantity						4.00			
		Quantity upto125%						5.00	648.00	3240.00	
		Quantity above 125%						5.00	494.57	2473.00	
Item No.113		Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.80mm dia									
		Item Not Operated									
Item No.114		Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia									
			m								
		Vide Total executed Quantity from premeasurement Page no. 08						165.30			
		Total Executed Quantity						165.30			

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Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							Schedule B quantity	100.00			
							Quantity upto125%	125.00			
							Quantity above 125%	40.30			
							DPQ paid in 4th RA Bill	100.00			
							Now to be Paid Quantity				
							Quantity upto125%	25.00	373.58	9340.00	
							Quantity above 125%	40.30	361.29	14560.00	
		Item No.115 Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 90mm dia									
			m								
							Total Executed Quantity	100.00			
							Modified Schedule B quantity	100.00			
							DPQ paid in 4th RA Bill	100.00			
							Now to be Paid Quantity	Nill			
		Item No.116 Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia									
			m								
		Vide Total executed Quantity from premeasurement Page no.						176.75			
							Total Executed Quantity	176.75			
							Schedule B quantity	100.00			
							Quantity upto125%	125.00			
							Quantity above 125%	51.75			
							DPQ paid in 1st RA Bill	72.00			
							DPQ paid in 4th RA Bill	99.00			
							Now to be Paid Quantity				
							Quantity above 125%	5.75	774.36	4453.00	
		Item No.117 Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cmsx 7.5									
		Measurements taken on									
		Present Bill Measurements									
		Ground Floor	Nos	22				22.00			
		First Floor	Nos	16				16.00			
		Second Floor	Nos	4				4.00			
							Total Executed Quantity	42.00			
							Schedule B quantity	30.00			
							Quantity upto125%	37.50	270.00	10125.00	
							Quantity above 125%	4.50	270.00	1215.00	
		Item No.118 Providing and fixing 7.5 cms to 15.00 cms dia NP granting 100 mm dia Pag no 85. Itm 12.111 -									
		Measurements taken on									
		Present Bill Measurements									
		Ground Floor	Nos	22				22.00			
		First Floor	Nos	16				16.00			
		Second Floor	Nos	4				4.00			
							Total Executed Quantity	42.00			
							Schedule B quantity	30.00			
							Quantity upto125%	37.50	172.80	6480.00	
							Quantity above 125%	4.50	165.22	744.00	

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Client / Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.119		Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table mounted non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x 600mm internal dimensions, total weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications Pag no 70. Itm 11.50.1									
Measurements taken on		**Quantity taken upto 4th RA Bill**						4.00			
		Present Bill Measurements									
			Nos	3				3.00			
							Total Executed Quantity	7.00			
							Modified Schedule B quantity	7.00			
							DPQ paid in 3rd RA Bill	4.00			
							Now to be Paid Quantity	3.00	7604.00	22812.00	
Item No.120		providing and fixing on wall surface 4 kg/sq.cm HDPE rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications P.No.47item No.8.19									
Measurements taken on		**Present Bill Measurements**									
		Ground Floor	m	7	6.00			42.00			
			m	17	6.00			102.00			
		Rain water pipe	m	11	6.00			66.00			
		filtre connection	m	5	6.00			30.00			
		First Floor									
		Toilets	m	5	6.00			30.00			
			m	5	6.00			30.00			
							Total Executed Quantity	300.00			
							Modified Schedule B quantity	300.00			
							Now to be Paid Quantity	300.00	613.44	184032.00	
Item No.121		Providing & fixing of glazed Openable Window made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanixed iron profiles throuhout the window. The outer frame having a overall size of 60x55 mm with reinforcement of 1 mm thickness, mullion with overall size of 74x60 mm with reinforcement of 1 mm and sash with overall size of 75x60 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 34x20 mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame, mullion & sash shall be 2-2.2 mm.									
			Sqm								
							Total Executed Quantity	9.91			
							Modified Schedule B quantity	9.91			
							DPQ paid in 4th RA Bill	9.91			
							Now to be Paid Quantity	Nill			
Item No.122		PART A:- SUBSTATION EQUIPMENT Supply and erection of 11Mtr Spun Pole including earth work etc,. complete as per the standard technical specification directions of the Engineer-In-charge of the work									
			Each								
							Total Executed Quantity	1.00			
							Modified Schedule B quantity	1.00			
							DPQ paid in 4th RA Bill	1.00			
							Now to be Paid Quantity	Nill			

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		DPQ paid in 4th RA Bill						**4.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.131 Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.10)Horn Gap Fuse Unit (H.G.) directions of the Engineer-In-charge of the work									
			Each								
		Total Executed Quantity						**1.00**			
		Modified Schedule B quantity						**1.00**			
		DPQ paid in 4th RA Bill						**1.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.132 Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.12)Lightning Arrestor 9KV 5kA polymeric type. directions of the Engineer-In-charge of the work									
			Each								
		Total Executed Quantity						**1.00**			
		Modified Schedule B quantity						**1.00**			
		DPQ paid in 4th RA Bill						**1.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.133 Supplying erection, testing and commissioning of 11kV Load Break Switch with 4 wire- (with Neutral) Metering cubicle and connected accessories, hardware's etc. suitable for outdoor type complete as per latest IS standard technical specification. LBS should be approved by BESCOM System :11KV, 3PH, 50HZ, Fault level: 350 MVA. Installation : OUTDOOR. a.Onload AIR BREAK switch with fuse trip mechanism ,3P,400A, 12KV,18.4 KA, 350MVA - 1 no b.11KV HRC Fuses with triping striker pin suitable Amps - 3nos c.Aluminium busbar, suitable rating 3 Phase,Air insulated with heat shrinkable sleevs - 1set d.Earth 25X3 mm Tin coated copper busbar - 1set e.Busbar supports resin cast with 33KV die electric and mechanical strength - 1 set directions of the Engineer-In-charge of the work									
			Each								
		Total Executed Quantity						**1.00**			
		Modified Schedule B quantity						**1.00**			
		DPQ paid in 4th RA Bill						**1.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.134 Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07 directions of the Engineer-In-charge of the work									
		Item Not Operated									
		Item No.135 GI Pipes B - Class GI Pipe - 150 mm Dia Dia 768058 directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**10.00**			
		Modified Schedule B quantity						**10.00**			
		DPQ paid in 4th RA Bill						**10.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.136 TRANSFORMER:- Supplying, erecting, testing and commissioning of ..... KVA capacity Copper wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to-10% Steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification. 8.10.2) 100 KVA directions of the Engineer-In-charge of the work									
			Each								
		Total Executed Quantity						**1.00**			
		Modified Schedule B quantity						**1.00**			
		DPQ paid in 4th RA Bill						**1.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.137 LT KIOSK:- LT Distribution Box for 63/100 KVA Transformer with 1No 160Amps 25kA 4Pole MCCB, suitable capacity aluminum bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Transformer Centre directions of the Engineer-In-charge of the work									
			Set								
		Total Executed Quantity						**1.00**			
		Modified Schedule B quantity						**1.00**			
		DPQ paid in 4th RA Bill						**1.00**			
		Now to be Paid Quantity						**Nill**			

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Item No.138		B. EARTHING SYSTEM Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia directions of the Engineer-In-charge of the work									
			Each								
		Total Executed Quantity						**6.00**			
		Modified Schedule B quantity						**6.00**			
		DPQ paid in 4th RA Bill						**6.00**			
		Now to be Paid Quantity						**Nill**			
Item No.139		Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. directions of the Engineer-In-charge of the work									
			Each								
		Total Executed Quantity						**8.00**			
		Modified Schedule B quantity						**8.00**			
		DPQ paid in 4th RA Bill						**8.00**			
		Now to be Paid Quantity						**Nill**			
Item No.140		Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**17.00**			
		Modified Schedule B quantity						**17.00**			
		DPQ paid in 4th RA Bill						**17.00**			
		Now to be Paid Quantity						**Nill**			
Item No.141		Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**12.00**			
		Modified Schedule B quantity						**12.00**			
		DPQ paid in 4th RA Bill						**12.00**			
		Now to be Paid Quantity						**Nill**			
Item No.142		Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm plate directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**4.00**			
		Modified Schedule B quantity						**4.00**			
		DPQ paid in 4th RA Bill						**4.00**			
		Now to be Paid Quantity						**Nill**			
Item No.143		Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**105.00**			
		Modified Schedule B quantity						**105.00**			
		DPQ paid in 4th RA Bill						**105.00**			
		Now to be Paid Quantity						**Nill**			
Item No.144		Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm GI strip directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**20.00**			
		Modified Schedule B quantity						**20.00**			
		DPQ paid in 4th RA Bill						**20.00**			

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR

PMC

ASSISTANT ENGINEER

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: **Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							Now to be Paid Quantity	**Nill**			
		Item No.145 Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI Plate directions of the Engineer-In-charge of the work									
			m				**Total Executed Quantity**	**4.00**			
							Modified Schedule B quantity	**4.00**			
							DPQ paid in 4th RA Bill	**4.00**			
							Now to be Paid Quantity	**Nill**			
		Item No.146 Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG directions of the Engineer-In-charge of the work									
			m				**Total Executed Quantity**	**35.00**			
							Modified Schedule B quantity	**35.00**			
							DPQ paid in 4th RA Bill	**35.00**			
							Now to be Paid Quantity	**Nill**			
		Item No.147 PART C:-L.T Panel boards and distribution boards "Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 6.40.1) 14SWG" directions of the Engineer-In-charge of the work 1.0) Main LT Panel									
			Sqcm				**Total Executed Quantity**	**255835.00**			
							Schedule B quantity	**173440.00**			
							Quantity upto 125%	**216800.00**			
							Quantity above 125%	**39035.00**			
							DPQ paid in 4th RA Bill				
							Quantity upto 125%	**216800.00**			
							Quantity above 125%	**39035.00**			
							Now to be Paid Quantity	**Nill**			
		Item No.148 Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.5) 75x150x75x6mm C channel directions of the Engineer-In-charge of the work									
			m				**Total Executed Quantity**	**5.00**			
							Modified Schedule B quantity	**5.00**			
							DPQ paid in 4th RA Bill	**5.00**			
							Now to be Paid Quantity	**Nill**			
		Item No.149 Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE 200Amps 35kA.(Incoming) directions of the Engineer-In-charge of the work									
			Nos				**Total Executed Quantity**	**1.00**			
							Modified Schedule B quantity	**1.00**			
							DPQ paid in 4th RA Bill	**1.00**			
							Now to be Paid Quantity	**Nill**			
		Item No.150 Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE125-160Amps 25kA.(Outgoing) directions of the Engineer-In-charge of the work									
			Nos				**Total Executed Quantity**	**3.00**			
							Modified Schedule B quantity	**3.00**			
							DPQ paid in 4th RA Bill	**3.00**			
							Now to be Paid Quantity	**Nill**			

RUDRAPRASAD CONSULTANTS BANGALORE

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.151		Supplying and fixing of Shunt trip suitable for MCCB.CBCT. directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	4.00			
							Modified Schedule B quantity	4.00			
							DPQ paid in 4th RA Bill	4.00			
							Now to be Paid Quantity	Nill			
Item No.152		Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	3.00			
							Modified Schedule B quantity	3.00			
							DPQ paid in 4th RA Bill	3.00			
							Now to be Paid Quantity	Nill			
Item No.153		Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16. 5-32Amps TPN (Outgoing) directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	6.00			
							Modified Schedule B quantity	6.00			
							DPQ paid in 4th RA Bill	6.00			
							Now to be Paid Quantity	Nill			
Item No.154		Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	3.00			
							Modified Schedule B quantity	3.00			
							DPQ paid in 4th RA Bill	3.00			
							Now to be Paid Quantity	Nill			
Item No.155		Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work									
			Each								
							Total Executed Quantity	1.00			
							Modified Schedule B quantity	1.00			
							DPQ paid in 4th RA Bill	1.00			
							Now to be Paid Quantity	Nill			
Item No.156		Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work									
			Each								
							Total Executed Quantity	1.00			
							Modified Schedule B quantity	1.00			
							DPQ paid in 4th RA Bill	1.00			
							Now to be Paid Quantity	Nill			
Item No.157		Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work									
			Each								
							Total Executed Quantity	1.00			
							Modified Schedule B quantity	1.00			
							DPQ paid in 4th RA Bill	1.00			
							Now to be Paid Quantity	Nill			
Item No.158		Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work									
			Each								
							Total Executed Quantity	1.00			
							Modified Schedule B quantity	1.00			
							DPQ paid in 4th RA Bill	1.00			
							Now to be Paid Quantity	Nill			

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: **Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.159		Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work									
			Each								
								Total Executed Quantity	**1.00**		
								Modified Schedule B quantity	**1.00**		
								DPQ paid in 4th RA Bill	**1.00**		
								Now to be Paid Quantity	**Nill**		
Item No.160		Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work									
			Each								
								Total Executed Quantity	**3.00**		
								Modified Schedule B quantity	**3.00**		
								DPQ paid in 4th RA Bill	**3.00**		
								Now to be Paid Quantity	**Nill**		
Item No.161		Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. directions of the Engineer-In-charge of the work									
			Each								
								Total Executed Quantity	**1.00**		
								Modified Schedule B quantity	**1.00**		
								DPQ paid in 4th RA Bill	**1.00**		
								Now to be Paid Quantity	**Nill**		
Item No.162		Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work									
			m								
								Total Executed Quantity	**3.00**		
								Modified Schedule B quantity	**3.00**		
								DPQ paid in 4th RA Bill	**3.00**		
								Now to be Paid Quantity	**Nill**		
Item No.163		Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.6.12.1) 25Amps directions of the Engineer-In-charge of the work									
			Each								
								Total Executed Quantity	**4.00**		
								Modified Schedule B quantity	**4.00**		
								DPQ paid in 4th RA Bill	**4.00**		
								Now to be Paid Quantity	**Nill**		
Item No.164		Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. directions of the Engineer-In-charge of the work									
			Nos								
								Total Executed Quantity	**20.00**		
								Modified Schedule B quantity	**20.00**		
								DPQ paid in 4th RA Bill	**20.00**		
								Now to be Paid Quantity	**Nill**		
Item No.165		Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect / disconnect banks, with automatic recognition or with standard programs. directions of the Engineer-In-charge of the work									
			Each								
								Total Executed Quantity	**1.00**		

CONTRACTOR

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Client

Chainage in m: From / To

Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
					Modified Schedule B quantity	1.00			
					DPQ paid in 4th RA Bill	1.00			
					Now to be Paid Quantity	Nill			
Item No.166 Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.5) 75x150x75x6mm C channel directions of the Engineer	m								
					Total Executed Quantity	5.00			
					Modified Schedule B quantity	5.00			
					DPQ paid in 4th RA Bill	5.00			
					Now to be Paid Quantity	Nill			
Item No.167 Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work	Each								
					Total Executed Quantity	3.00			
					Modified Schedule B quantity	3.00			
					DPQ paid in 4th RA Bill	3.00			
					Now to be Paid Quantity	Nill			
Item No.168 Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63 Amps TPN (Outgoing) directions of the Engineer-In-charge of the work	Each								
					Total Executed Quantity	6.00			
					Modified Schedule B quantity	6.00			
					DPQ paid in 4th RA Bill	6.00			
					Now to be Paid Quantity	Nill			
Item No.169 Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work	Each								
					Total Executed Quantity	3.00			
					Modified Schedule B quantity	3.00			
					DPQ paid in 4th RA Bill	3.00			
					Now to be Paid Quantity	Nill			
Item No.170 Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work	Each								
					Total Executed Quantity	1.00			
					Modified Schedule B quantity	1.00			
					DPQ paid in 4th RA Bill	1.00			
					Now to be Paid Quantity	Nill			
Item No.171 Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work	Each								
					Total Executed Quantity	1.00			
					Modified Schedule B quantity	1.00			
					DPQ paid in 4th RA Bill	1.00			
					Now to be Paid Quantity	Nill			
Item No.172 Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work	Each								
					Total Executed Quantity	1.00			
					Modified Schedule B quantity	1.00			
					DPQ paid in 4th RA Bill	1.00			
					Now to be Paid Quantity	Nill			

RUDRAPRASAD CONSULTANTS BANGALORE

31/10/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CONTRACTOR

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Client / Drainage in m / To / Item No 173	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work									
		Each								
							Total Executed Quantity	**1.00**		
							Modified Schedule B quantity	**1.00**		
							DPQ paid in 4th RA Bill	**1.00**		
							Now to be Paid Quantity	**Nill**		
Item No.174	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work									
		Each								
							Total Executed Quantity	**3.00**		
							Modified Schedule B quantity	**3.00**		
							DPQ paid in 4th RA Bill	**3.00**		
							Now to be Paid Quantity	**Nill**		
Item No.175	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work									
		Each								
							Total Executed Quantity	**1.00**		
							Modified Schedule B quantity	**1.00**		
							DPQ paid in 4th RA Bill	**1.00**		
							Now to be Paid Quantity	**Nill**		
Item No.176	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor. 6.2.1) Upto 12.5 HP directions of the Engineer-In-charge of the work									
		Each								
							Total Executed Quantity	**4.00**		
							Modified Schedule B quantity	**4.00**		
							DPQ paid in 4th RA Bill	**4.00**		
							Now to be Paid Quantity	**Nill**		
Item No.177	Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work									
		m								
							Total Executed Quantity	**5.00**		
							Modified Schedule B quantity	**5.00**		
							DPQ paid in 4th RA Bill	**5.00**		
							Now to be Paid Quantity	**Nill**		
Item No.178	3.0) MCB Distribution Boards Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door 6.17.7) 4Way TP &N directions of the Engineer-In-charge of the work									
		Each								
							Total Executed Quantity	**3.00**		
							Modified Schedule B quantity	**3.00**		
							DPQ paid in 4th RA Bill	**3.00**		
							Now to be Paid Quantity	**Nill**		
Item No.179	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps TPN directions of the Engineer-In-charge of the work									
		Each								
							Total Executed Quantity	**3.00**		

CONTRACTOR

RUDRAPRASAD CONSULTANTS BANGALORE

PMC

ASSISTANT ENGINEER

31/5/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Client Page No. From / To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
						Modified Schedule B quantity	3.00			
						DPQ paid in 4th RA Bill	3.00			
						Now to be Paid Quantity	Nill			
Item No.180	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps SP directions of the Engineer-In-charge of the work									
		Each								
						Total Executed Quantity	36.00			
						Modified Schedule B quantity	36.00			
						DPQ paid in 4th RA Bill	36.00			
						Now to be Paid Quantity	Nill			
Item No.181	PART D:-SUBMAINS CIRCUIT MAINS/POWER WIRING Open Conduit System Supplying heavy gauge PVC conduit pipe .dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
		m								
						Total Executed Quantity	466.00			
						Modified Schedule B quantity	466.00			
						DPQ paid in 4th RA Bill	466.00			
						Now to be Paid Quantity	Nill			
Item No.182	Open Conduit System Supplying heavy gauge PVC conduit pipedia .mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia 2mm thick directions of the Engineer-In-charge of the work									
		m								
						Total Executed Quantity	141.00			
						Modified Schedule B quantity	141.00			
						DPQ paid in 4th RA Bill	141.00			
						Now to be Paid Quantity	Nill			
Item No.183	Open Conduit System Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work									
		m								
						Total Executed Quantity	81.00			
						Modified Schedule B quantity	81.00			
						DPQ paid in 4th RA Bill	81.00			
						Now to be Paid Quantity	Nill			
Item No.184	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia .mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
		m								
						Total Executed Quantity	408.00			
						Modified Schedule B quantity	408.00			
						DPQ paid in 4th RA Bill	408.00			
						Now to be Paid Quantity	Nill			
Item No.185	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work									
		m								
						Total Executed Quantity	1469.00			

CONTRACTOR

PMC

ASSISTANT ENGINEER

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Item / Page in m / To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
						Schedule B quantity	1453.00			
						Quantity upto 125%	1469.00			
						DPQ paid in 1st RA Bill	16.00			
						DPQ paid in 4th RA Bill	1453.00			
						Now to be Paid Quantity	Nill			
Item No.186	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary32mm dia 2.5mm thick directions of the Engineer-In-charge of the work									
		m				Total Executed Quantity	282.00			
						Modified Schedule B quantity	282.00			
						DPQ paid in 4th RA Bill	282.00			
						Now to be Paid Quantity	Nill			
Item No.187	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe.dia .mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
		m				Total Executed Quantity	10.00			
						Modified Schedule B quantity	10.00			
						DPQ paid in 4th RA Bill	10.00			
						Now to be Paid Quantity	Nill			
Item No.188	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia.mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick directions of the Engineer-In-charge of the work									
		m				Total Executed Quantity	425.00			
						Modified Schedule B quantity	425.00			
						DPQ paid in 4th RA Bill	425.00			
						Now to be Paid Quantity	Nill			
Item No.189	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.32mm dia 2.5mm thick directions of the Engineer-In-charge of the work									
		m				Total Executed Quantity	227.00			
						Modified Schedule B quantity	227.00			
						DPQ paid in 4th RA Bill	227.00			
						Now to be Paid Quantity	Nill			
Item No.190	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Short point upto 3Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work									
		Point				Total Executed Quantity	10.00			
						Modified Schedule B quantity	10.00			
						DPQ paid in 4th RA Bill	10.00			
						Now to be Paid Quantity	Nill			

CONTRACTOR

PMC

ASSISTANT ENGINEER

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Client Chainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No 191	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet GROUP A Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work									
		Point								
						Total Executed Quantity	19.00			
						Modified Schedule B quantity	19.00			
						DPQ paid in 4th RA Bill	19.00			
						Now to be Paid Quantity	Nill			
Item No 192	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work									
		Point								
						Total Executed Quantity	126.00			
						Modified Schedule B quantity	126.00			
						DPQ paid in 4th RA Bill	126.00			
						Now to be Paid Quantity	Nill			
Item No.193	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work									
		Point								
						Total Executed Quantity	6.00			
						Modified Schedule B quantity	6.00			
						DPQ paid in 4th RA Bill	6.00			
						Now to be Paid Quantity	Nill			
Item No.194	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work									
		Point								
						Total Executed Quantity	2.00			
						Modified Schedule B quantity	2.00			
						DPQ paid in 4th RA Bill	2.00			
						Now to be Paid Quantity	Nill			
Item No.195	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 1.5 sqmm. directions of the Engineer-In-charge of the work									
		m								
						Total Executed Quantity	800.00			
						Modified Schedule B quantity	800.00			
						DPQ paid in 4th RA Bill	800.00			
						Now to be Paid Quantity	Nill			
Item No.196	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.2.5 sqmm directions of the Engineer-In-charge of the work									
		m								
						Total Executed Quantity	2000.00			
						Modified Schedule B quantity	2000.00			
						DPQ paid in 4th RA Bill	2000.00			
						Now to be Paid Quantity	Nill			

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Client Chainage in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No 197	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 2.5 sqmm directions of the Engineer-In-charge of the work	m								
	Total Executed Quantity						**475.00**			
	Modified Schedule B quantity						**475.00**			
	DPQ paid in 4th RA Bill						**475.00**			
	Now to be Paid Quantity						**Nill**			
Item No 198	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete. 1-3Way directions of the Engineer-In-charge of the work									
Item No 199	**Item Not Operated** Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.4-5Way directions of the Engineer-In-charge of the work									
Item No.200	**Item Not Operated** Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.6Way directions of the Engineer-In-charge of the work									
Item No.201	**Item Not Operated** Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete. 10-12Way directions of the Engineer-In-charge of the work									
Item No.202	**Item Not Operated** Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 1 to 3 Module directions of the Engineer-In-charge of the work									
Item No.203	**Item Not Operated** Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.4 Module directions of the Engineer-In-charge of the work									
Item No.204	**Item Not Operated** Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.6 Module directions of the Engineer-In-charge of the work									
Item No.205	**Item Not Operated** Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.8 Module directions of the Engineer-In-charge of the work									
Item No.206	**Item Not Operated** Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.10 Module directions of the Engineer-In-charge of the work									
Item No.207	**Item Not Operated** Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.12 Module directions of the Engineer-In-charge of the work									
Item No.208	**Item Not Operated** Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6Amps 3way socket. directions of the Engineer-In-charge of the work									
Item No.209	**Item Not Operated** Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 1000-1200Watts Dimmer directions of the Engineer-In-charge of the work									
	Item Not Operated									

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.210		Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 16Amps one way switch directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.211		Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 32Amps DP switch directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.212		Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A TV/Telephone socket directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.213		Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6/16Amps universal socket directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.214		PART E:-Light Fixtures and Fan Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 2x4'-28Watts directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.215		Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4'-28Watts directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.216		Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. Using necessary length of G.I. chain directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.217		Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						69.00			
		Modified Schedule B quantity						69.00			
		DPQ paid in 4th RA Bill						69.00			
		Now to be Paid Quantity						Nill			
Item No.218		Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.219		Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC supply directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.220		Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 56" Sweep (1400mm) 9.3.2.1) Regular model directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.221		Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired. directions of the Engineer-In-charge of the work									
		Item Not Operated									

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31/8/24

Asst. Executive Engineer
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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.222		Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 9.2.1)12" Sweep (300mm) directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.223		Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame. directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.224		PART-F :- CABLE AND CABLE END TERMINATION HT CABLES HT Cable GROUP A: Supplying and laying of high tension 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE (E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed with specified IS 7098/11/85 with latest amendments & confirming to the GTP of GROUP-A 8.3.1) 3Cx95 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.225		Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) 7.9.2) In soil (hard) directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.226		LT CABLES Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 10 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.227		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 185 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.228		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 120 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.229		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 70 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.230		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.231		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.232		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 25 sqmm to 75 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.233		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 95 sqmm to 150Sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									

RUDRAPRASAD CONSULTANTS BANGALORE

31/07/24

Asst. Executive Engineer
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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.234		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 185sqmm to 240Sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.235		END TERMINATION HT CABLE ENDTERMINATION Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations- OUTDOOR JOINTING KIT & confirming to the GTP. OUTDOOR 8.2.1) 3Cx95/120sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.236		Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations- INDOOR JOINTING KIT & confirming to the GTP. INDOOR 8.2.5) 3Cx95/120sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.237		LT CABLE END TERMINATION Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.238		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)32mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.239		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 50mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.240		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 75mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.241		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 16 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.242		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 25 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.243		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 70 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.244		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 120 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.245		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 185 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.246		CABLE TRAY Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts/nuts and washer or welding as required. 7.19.1) 150x50mm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.247		Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. In soil (hard) directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.248		Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.C.C. cutting directions of the Engineer-In-charge of the work									
		Item Not Operated									

RUDRAPRASAD CONSULTANTS BANGALORE

Asst. Executive Engineer 31/8/24
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CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.249		G. MISCELLANEOUS ITEMS Supplying and fixing of class A (medium duty) Gl pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 7.12.2) 50mm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.250		Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.1) 40x40x6mm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.251		Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables.7.20.10) 160mm OD / 135mm ID directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.252		Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.253		Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.254		Concealed Conduit System Supplying heavy gauge PVC conduit pipemm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.255		Supplying and installation of ABC Kgs capacity Fire Extinguishers for multipurpose (Solid, Liquid, Gas, Electrical) a) 5 Kgs directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.256		Supplying and installation of Dry Chemical powder.Kg capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) b) 5 Kgs directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.257		Supplying and installation of Mechanical Foam-9ltrs capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.258		Supplying and installing of CO2Kgs capacity Fire Extinguishers for multipurpose (Servers, Panels, Computers, etc.,) c) 4-5 Kgs directions of the Engineer-In-charge of the work directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.259		Supplying of Four Bucket stand along with Buckets directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.260		Supplying of Hand Gloves directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.261		Supplying and installation of RUBBER MAT 1mt x 2mt-100mm thick directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.262		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 7.4.10) 3.5 core 120 sqmm									
		Item Not Operated									

RUDRAPRASAD CONSULTANTS BANGALORE

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.263		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 7.8.8) 95 sqmm to 150Sqmm									
		Item Not Operated									
Item No.264		Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) 7.9.2) In soil (hard)									
		Item Not Operated									
Item No.265		Supply and installation of Acoustic insulation using 50mm thick with 24Kg Density glass wool with 24G aluminum perforated sheet complete.									
		Item Not Operated									
Item No.266		Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.65mm									
		Item Not Operated									
Item No.267		Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. 50mm									
		Item Not Operated									
Item No.268		B. EARTHING SYSTEM Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.									
		Item Not Operated									
Item No.269		Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip									
		Item Not Operated									
Item No.270		Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.25x6mm Copper strip									
		Item Not Operated									
Item No.271		Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip									
		Item Not Operated									
Item No.272		Supplying and running of GI strips for grounding connections, using necessary fixing materials as required.40x6mm GI strip									
		Item Not Operated									
Item No.273		Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG									
		Item Not Operated									
E1		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 300 to 350 m									
			m								
		Total Executed Quantity						**100.00**			
		Modified Schedule B quantity						**100.00**			
		DPQ paid in 1st RA Bill						**100.00**			
		Now to be Paid Quantity						**Nill**			
E2		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 350 to 400 m									
			m								
		Total Executed Quantity						**97.00**			
		Modified Schedule B quantity						**97.00**			
		DPQ paid in 1st RA Bill						**97.00**			
		Now to be Paid Quantity						**Nill**			

CONTRACTOR

PMC

ASSISTANT ENGINEER

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Client: **Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
E3		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 400 to 430 m									
			m								
								Total Executed Quantity	**27.00**		
								Modified Schedule B quantity	**27.00**		
								DPQ paid in 1st RA Bill	**27.00**		
								Now to be Paid Quantity	**Nill**		
E4		Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305.									
			Cum								
								Total Executed Quantity	**569.16**		
								Modified Schedule B quantity	**569.16**		
								DPQ paid in 1st RA Bill	**569.16**		
								Now to be Paid Quantity	**Nill**		
E5		Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring and strutting, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavation earth to the extent required including the cost of labour & HOM of machineries, as per drawing and technical specification.									
			Cum								
								Total Executed Quantity	**1338.30**		
								Modified Schedule B quantity	**1338.30**		
								DPQ paid in 1st RA Bill	**1338.30**		
								Now to be Paid Quantity	**Nill**		
E6		Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160 mm outer dia									
			m								
								Total Executed Quantity	**36.00**		
								Modified Schedule B quantity	**36.00**		
								DPQ paid in 1st RA Bill	**36.00**		
								Now to be Paid Quantity	**Nill**		
E7		Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 200 mm outer dia									
			m								
								Total Executed Quantity	**12.00**		
								Modified Schedule B quantity	**12.00**		
								DPQ paid in 1st RA Bill	**12.00**		
								Now to be Paid Quantity	**Nill**		
E8		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beams haunchings, cantilelver, girders, bressumers and lintels exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No.									
			Sqm								
								Total Executed Quantity	**1053.98**		
								Modified Schedule B quantity	**1053.98**		
								DPQ paid in 2nd RA Bill	**746.12**		
								DPQ paid in 3rd RA Bill	**307.86**		
								Now to be Paid Quantity	**Nill**		
E9		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 9 mtrs.									
			Sqm								
								Total Executed Quantity	**1194.46**		
								Modified Schedule B quantity	**1194.46**		
								DPQ paid in 2nd RA Bill	**953.88**		

R.K.P.

RUDRAPRASAD CONSULTANTS BANGALORE

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CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							DPQ paid in 3rd RA Bill	240.59			
							Now to be Paid Quantity	Nill			
		E10 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton.									
			Sqm				Total Executed Quantity	87.76			
							Modified Schedule B quantity	87.76			
							DPQ paid in 2nd RA Bill	87.76			
							Now to be Paid Quantity	Nill			
		E11 Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications (Ground Floor)									
			Sqm				Total Executed Quantity	61.79			
							Modified Schedule B quantity	61.79			
							DPQ paid in 3rd RA Bill	61.79			
							Now to be Paid Quantity	Nill			
		E12 Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. (Second Floor)									
		Measurements taken on									
		Quantity taken upto 4th RA Bill						10.50			
		Present Bill Measurements									
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		South Side Wall	Sqm	1	4.57		0.63	2.88			
			Sqm	1	10.21		0.63	6.43			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
		West Side Wall	Sqm	1	1.90		1.00	1.90			
							Total Executed Quantity	41.14			
							Modified Schedule B quantity	41.14			
							DPQ paid in 3rd RA Bill	10.50			
							Now to be Paid Quantity	30.64	970.41	29735.00	
		E13 Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications , (Ground Floor)									
		Measurements taken on									
		Quantity taken upto 4th RA Bill						305.01			
		Present Bill Measurements									
		Ground Floor									
		Compound Wall									
		West Side									
		Wall	Sqm	1	26.75		3.51	93.89			
			Sqm	1	8.53		2.90	24.74			
		Horizontal	Sqm	1	26.75	0.11		2.94			
		pillars Side	Sqm	10	0.18		3.51	6.32			
			Sqm	2	0.18		2.90	1.04			
		East Side	Sqm	1	35.07		3.73	130.81			
		pillars Side	Sqm	22	0.25		3.73	20.52			
		Horizontal	Sqm	1	35.07	0.10		3.51			
			Sqm	1	23.33	0.10		2.33			

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288.10

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CONTRACTOR

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ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		vertical	Sqm	1	0.10	0.13		0.01			
			Sqm	1	0.36	0.12		0.04			
			Sqm	1	0.33	0.10		0.03			
		Baby Swimming Pool									
		East Side	Sqm	1	8.76		0.60	5.26			
			Sqm	1	4.20	0.22		0.92			
		East Side Stage	Sqm	1	4.20	0.30		1.26			
			Sqm	1	0.30	0.22		0.07			
		North Side	Sqm	1	2.94		0.60	1.76			
		Deduction									
		West side pillars	Sqm	-5	0.22	0.11		-0.12			
		East side pillars	Sqm	-11	0.38	0.10		-0.42			
		East side Door	Sqm	-1	0.86		1.92	-1.65			
		Pillars Bottom	Sqm	-7	0.10	0.38		-0.27			
		Baby Swimming Pool Wall	Sqm	-1	4.20		0.30	-1.26			
			Sqm	-1	0.24		0.50	-0.12			
							Total Executed Quantity	**596.64**			
							Modified Schedule B quantity	**596.64**			
							DPQ paid in 3rd RA Bill	**305.01**			
							Now to be Paid Quantity	**291.62**	**225.81**	**65850.00**	

E14 Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications , Second Floor

			Sqm								
							Total Executed Quantity	**90.72**			
							Modified Schedule B quantity	**90.72**			
							DPQ paid in 3rd RA Bill	**90.72**			
							Now to be Paid Quantity	**Nill**			

E15 Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.(Ground Floor)

Measurements taken on

		Quantity taken upto 4th RA Bill						**224.91**			
		Present Bill Measurements									
		Ground Floor									
		Chambers west Side	Sqm	4	1.00	0.60		2.40			
							Total Executed Quantity	**227.31**			
							Modified Schedule B quantity	**227.31**			
							DPQ paid in 3rd RA Bill	**224.91**			
							Now to be Paid Quantity	**2.40**	**104.64**	**251.00**	

E16 Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications (Second Floor)

			Sqm								
							Total Executed Quantity	**389.34**			
							Modified Schedule B quantity	**389.34**			
							DPQ paid in 3rd RA Bill	**389.34**			
							Now to be Paid Quantity	**Nill**			

Asst. Executive Engineer
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RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: **Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
E17		Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Ground Floor)									
Measurements taken on											
		Quantity taken upto 4th RA Bill						**305.10**			
		Present Bill Measurements									
		Ground Floor									
		Compound Wall									
		West Side									
		Wall	Sqm	1	26.75		3.51	93.89			
			Sqm	1	8.53		2.90	24.74			
			Sqm	1	26.75	0.11		2.94			
		Horizontal	Sqm	10	0.18		3.51	6.32			
		pillars Side	Sqm	2	0.18		2.90	1.04			
			Sqm	1	35.07		3.73	130.81			
		East Side	Sqm	22	0.25		3.73	20.52			
		pillars Side	Sqm	1	35.07	0.10		3.51			
		Horizontal	Sqm	1	23.33	0.10		2.33			
			Sqm	1	0.10	0.13		0.01			
		vertical	Sqm	1	0.36	0.12		0.04			
			Sqm	1	0.33	0.10		0.03			
		Baby Swimming Pool									
		East Side	Sqm	1	8.76		0.60	5.26			
			Sqm	1	4.20	0.22		0.92			
		East Side Stage	Sqm	1	4.20	0.30		1.26			
			Sqm	1	0.30	0.22		0.07			
		North Side	Sqm	1	2.94		0.60	1.76			
		Deduction									
		West side pillars	Sqm	-5	0.22	0.11		-0.12			
		East side pillars	Sqm	-11	0.38	0.10		-0.42			
		East side Door	Sqm	-1	0.86		1.92	-1.65			
		Pillars Bottom	Sqm	-7	0.10	0.38		-0.27			
		Baby Swimming Pool Wall	Sqm	-1	4.20		0.30	-1.26			
			Sqm	-1	0.24		0.50	-0.12			
							Total Executed Quantity	**596.73**			
							Modified Schedule B quantity	**596.73**			
							DPQ paid in 3rd RA Bill	**305.10**			
							Now to be Paid Quantity	**291.62**	**1797.63**	**524232.00**	
E18		Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification NoColour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Second Floor)									
			Sqm								
							Total Executed Quantity	**90.72**			
							Modified Schedule B quantity	**90.72**			
							DPQ paid in 3rd RA Bill	**90.72**			
							Now to be Paid Quantity	**Nill**			

Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore - 92

PRUDHVIRAJ PRASAD CONSULTANTS BANGALORE

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
E19		Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm								
Measurements taken on		**Quantity taken upto 4th RA Bill**						7.93			
		Present Bill Measurements									
		East Side (Road Side)									
		Near Chain Link fencing	Cum	1	1.70	0.30	0.15	0.08			
			Cum	1	7.50	0.30	0.15	0.34			
		Approach Concrete	Cum	1	30.00	0.24	0.15	1.08			
		Near Filtration Room	Cum	1	2.60	0.25	0.15	0.10			
		Entrance Near Doors									
		Outside Stage	Cum	1	5.25	0.74	0.20	0.78			
		Ticket Counter									
		Stage	Cum	1	1.09	0.49	0.20	0.11			
		Near Baby Swimming Pool									
		East Side Stage	Cum	1	4.20	0.30	0.30	0.38			
							Total Executed Quantity	10.78			
							Modified Schedule B quantity	10.78			
							DPQ paid in 3rd RA Bill	7.93			
							Now to be Paid Quantity	2.85	7346.95	20963.00	
E20		Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No.									
			tonne								
							Total Executed Quantity	0.92			
							Modified Schedule B quantity	0.92			
							DPQ paid in 3rd RA Bill	0.92			
							Now to be Paid Quantity	Nill			
E21		Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m.									
			Sqm								
							Total Executed Quantity	9.30			
							Modified Schedule B quantity	9.30			
							DPQ paid in 3rd RA Bill	9.30			
							Now to be Paid Quantity	Nill			

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	Chainage in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		E22 Providing and fixing factory made Galvanized plain steel door frame of profile size 125x60 mm single rebate manufactured from galvanized plain steel sheet 1.25mm thick, confirming to IS:277. The door frame consists of hinge jamb, lock jamb, head and bottom tie bars, supply in knockdown condition & to be assembeled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60mm thick pressed angle 20 x 20mm screwed to the door frame. The stiffness of 3mm thick MS GATE & pre-trapped are to be welded inside the pre-punched alots of the door frames & 4 nos. of S.S.butt hinges 100 x 59 2.5mm to be screwed to the door frame. The stiffeners & mortor guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. Size 1000 x 2130 mm									
			Rmt								
								Total Executed Quantity	**11.60**		
								Modified Schedule B quantity	**11.60**		
								DPQ paid in 3rd RA Bill	**11.60**		
								Now to be Paid Quantity	**Nill**		
		E23 Providing and fixing factory made Galvanized plain steel door shutters 32mm thick manufactured from pre painted galvanized plain steel sheet 0.60mm thick confirming to the IS:14246. The door shutters consists of two outer skins if steel sheets , lock seam jointed at vertical stile edges, horizontal top and bottom sides to form a double skin fully flush shell. Rigid polyyurethane Foam (PUF) of density 40 kg/m3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60mm to be provided for fixing all hardware fixtures. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. Size 900 x 2035 x 32 mm									
			Sqm								
								Total Executed Quantity	**3.60**		
								Modified Schedule B quantity	**3.60**		
								DPQ paid in 3rd RA Bill	**3.60**		
								Now to be Paid Quantity	**Nill**		
		E24 Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 20mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.)160mm dia Pipe									
			m								
								Total Executed Quantity	**61.60**		
								Modified Schedule B quantity	**61.60**		
								DPQ paid in 3rd RA Bill	**61.60**		
								Now to be Paid Quantity	**Nill**		
		E25 Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification									
			Sqm								
								Total Executed Quantity	**779.58**		
								Modified Schedule B quantity	**779.58**		
								DPQ paid in 3rd RA Bill	**779.58**		
								Now to be Paid Quantity	**Nill**		
		E26 Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification									
			Sqm								
								Total Executed Quantity	**346.56**		
								Modified Schedule B quantity	**346.56**		
								DPQ paid in 3rd RA Bill	**346.56**		

CONTRACTOR

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: **Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							Now to be Paid Quantity	**Nill**			

E27 — Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved qualitycomplete as per specifications and directions of the Engineer in charge (Pg No.35 It No 7.11.2 SR 2018-19)

Measurements taken on

Present Bill Measurements

~~Ground Floor~~							
Office							
	Sqm	1	2.35		1.30	3.06	
	Sqm	1	2.30		1.30	2.99	
Ticket Counter							
	Sqm	1	0.90		0.89	0.80	
Alumunium Louvers							
Above Filtration tank							
North Side	Sqm	1	3.47		2.00	6.94	
	Sqm	1	5.85		2.00	11.70	
East Side	Sqm	1	3.48		2.00	6.96	
					Total Executed Quantity	**32.45**	
					Modified Schedule B quantity	**32.45**	
					Now to be Paid Quantity	**32.45**	**4885.13** 158503.00

E28 — KSRB13-6.7 : Providing and fixing in position chromium plated brass shower rose with 15 or 20mm inlet including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS 13.2.16 / 13.3 KSRB13-6.7-2 - do - 150 mm dia (Page no 95, It No 13.51, SR 2018-19)

Measurements taken on

Present Bill Measurements

Ground Floor	Each	14				14.00	
					Total Executed Quantity	**14.00**	
					Modified Schedule B quantity	**14.00**	
					Now to be Paid Quantity	**14.00**	**826.12** **11566.00**

E29 — Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications and directions of the Engineer in charge

Measurements taken on

Present Bill Measurements

Ground Floor							
Entrance	Nos	2				2.00	
Ticket counter	Nos	1				1.00	
					Total Executed Quantity	**3.00**	
					Modified Schedule B quantity	**3.00**	
					Now to be Paid Quantity	**3.00**	**1504.64** **4514.00**

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92 — 31/8/24

VIJAYAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: **Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054**

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
E30		Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications and directions of the Engineer in charge.									
Measurements taken on		**Present Bill Measurements**									
		Ground Floor									
		Entrance	Cum	2	7.44	0.20	0.09	0.27			
		Extra Piece	Cum	12	0.79	0.07	0.11	0.07			
		Ticket counter	Cum	1	5.78	0.07	0.12	0.05			
							Total Executed Quantity	**0.38**			
							Modified Schedule B quantity	**0.38**			
							Now to be Paid Quantity	**0.38**	96425.11	36736.00	
E31		Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries (excluding cost of fixtures) complete as per specifications and directions of the Engineer in charge.									
Measurements taken on		**Present Bill Measurements**									
		Ground Floor									
		Entrance	Sqm	4	0.84		1.95	6.55			
		Ticket Counter	Sqm	1	0.78		2	1.56			
							Total Executed Quantity	**8.11**			
							Modified Schedule B quantity	**8.11**			
							Now to be Paid Quantity	**8.11**	5205.25	42193.00	
E32		Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wrood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and directions of the Engineer in charge									
Measurements taken on		**Present Bill Measurements**									
		Painting for wood shutter									
		Ground Floor									
		Entrance	Sqm	8	0.84		1.95	13.10			
		Ticket Counter	Sqm	2	0.78		2.00	3.12			
		Second Floor									
		Badminton Main Door	Sqm	4	0.90		2.10	7.56			
		Office Room	Sqm	2	0.80		2.10	3.36			
		Gents change Room	Sqm	2	0.76		2.00	3.04			
		Ladies Change Room	Sqm	2	0.76		2.00	3.04			
		Painting for wood frame									
		Ground Floor									
		Entrance	Sqm	2	7.44	0.38		5.65			
		Extra Piece	Sqm	12	0.79	0.25		2.37			
		Ticket counter	Sqm	1	5.78	0.25		1.45			
		Second Floor									
		Badminton Main Door	Sqm	1	7.89	0.29		2.29			
		Office Room	Sqm	1	6.02	0.25		1.51			
		Gents change Room	Sqm	1	4.90	0.25		1.23			

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

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CONTRACTOR

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE EN

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Ladies Change Room	Sqm	1	4.90	0.25		1.23			
							Total Executed Quantity	**48.94**			
							Modified Schedule B quantity	**48.94**			
							Now to be Paid Quantity	**48.94**	**106.84**	**5229.00**	
F33		Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.									
Measurements taken on											
		Present Bill Measurements									
		Chain link fencing									
		East	Sqm	1	0.92		2.13	1.96			
		West	Sqm	1	1.84		2.13	3.92			
		North	Sqm	1	1.88		2.13	4.00			
		South	Sqm	1	2.07		2.13	4.41			
							Total Executed Quantity	**14.29**			
							Modified Schedule B quantity	**14.29**			
							Now to be Paid Quantity	**14.29**	**787.57**	**11256.00**	
E34		KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6									
Measurements taken on											
		Present Bill Measurements									
		Second Floor-Badminton Court									
0	30	East Side	Cum	1	30.00	1.89	0.075	4.25			
30	35.77		Cum	1	5.77	1.89	0.075	0.82			
0	30	West Side	Cum	1	30.00	1.95	0.075	4.39			
30	35.77		Cum	1	5.77	1.95	0.075	0.84			
							Total Executed Quantity	**10.30**			
							Modified Schedule B quantity	**10.30**			
							Now to be Paid Quantity	**10.30**	**6622.17**	**68220.00**	
									Sub Total	**13726649.00**	
									18% GST	**2470797.00**	
									Total Amount	**16197446.00**	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
31/08/2024

13726000.00
2470680.00
16196680.00
16196000.00

RUDRAPRASAD CONSULTANTS BANGALORE

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Client	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054									
Chainage in m										
From / To	Modified Schedule B quantity						4.00			
	DPQ paid in 1st RA Bill						4.00			
	Now to be Paid Quantity						Nill			
Item No 57	Providing and laying wooden floor for batmitun court & Gym room using 50x75mm Runners at the intervals of 0.45 both ways using mathi/sal wood with nailing properly fixing to existing roof concrete and above the Runners the planks of teakwood using tung & groove system with necessary chemicals niles polishing to be made for the teakwood planks. Approved Rate									
Measurements taken on										
	First Floor									
	Yoga Room	Sqm	1	13.60	9.35		127.12			
	Near Door	Sqm	1	1.78	0.10		0.18			
	Skirting									
	East Side	Sqm	1	13.84		0.11	1.52			
	West Side	Sqm	1	13.30		0.11	1.46			
	North Side	Sqm	1	10.10		0.11	1.11			
	South Side	Sqm	1	9.80		0.11	1.08			
	Columns	Sqm	2	2.30		0.11	0.50			
	Second Floor									
	Badminton Court	Sqm	1	35.77	19.50		697.44			
	Deduction									
	Columns for Flooring	Sqm	-2	0.65	0.50		-0.65			
		Sqm	-1	0.65	0.39		-0.25			
		Sqm	-1	0.50	0.10		-0.05			
		Sqm	-1	0.47	0.20		-0.09			
	Door	Sqm	-1	1.78		0.11	-0.20			
	Columns	Sqm	-2	0.65	0.50		-0.65			
		Sqm	-1	0.65	0.39		-0.25			
		Sqm	-1	0.50	0.10		-0.05			
		Sqm	-1	0.47	0.20		-0.09			
	Total Executed Quantity						828.13			
	Modified Schedule B quantity						828.13			
	Now to be Paid Quantity						828.13	12000.00	9937507.00	
Item No 58	Providing and laying 1.35mm pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. Approved Rate									
		Sqm								
	Total Executed Quantity						1032.75			
	Modified Schedule B quantity						1032.75			
	DPQ paid in 4th RA Bill						1032.75			
	Now to be Paid Quantity						Nill			
Item No 59	Supply, installtion, testing and commissioning of filters Commercial Bobin wound filter with 160mm fiange connection - 157 cumtr/hr Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work									
Measurements taken on										
	Quantity taken upto 4th RA Bill						2.00			
	Present Bill Measurements									
	Near Baby pool	Nos	1				1.00			
	Total Executed Quantity						3.00			
	Schedule B quantity						2.00			

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RAJENDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR | PMC | ASSISTANT ENGINEER | ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client		Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.01		Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification							
Measurements taken on		12/01/24						4841.36	
		Quantity taken upto 4th RA Bill						4841.44	
		Present Bill Measurements							
		Below Entrance Doors-SSM							
			cum	1	6.30	0.65	0.75	3.07	
							Total Executed Quantity	4844.51	
							Qty Carried to Summary	4844.51	

12/1/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

3.07

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client		Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.06		Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.							
Measurements taken on		16/01/2024							
		Quantity taken upto 4th RA Bill						484.23	
		Present Bill Measurements							
		Below Entrance Doors-SSM							
			cum	1	6.30	0.65	0.15	0.61	
							Total Executed Quantity	484.85	
							Qty Carried to Summary	484.85	

16/1/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

0.61

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client		Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.07		Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.							
Measurements taken on		19/01/2024, 24/01/2024							
		Quantity taken upto 4th RA Bill						**569.13**	
		Present Bill Measurements							
		Below Entrance Doors-SSM below							
			cum	1	6.30	0.65	0.15	0.61	
		SSM above	cum	1	6.30	0.45	0.20	0.57	
							Total Executed Quantity	**570.31**	
							Qty Carried to Summary	**570.31**	

24/1/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

1.18

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From / To								
Item No.13	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500							
Measurements taken on	03/03/23 & 09/02/2024							
	Quantity taken upto 4th RA Bill						**196.54**	
	Present Bill Measurements							
	Lintel beam	tonnes		From Steel calculation sheet			0.042	
	Baby Pool	tonnes		From Steel calculation sheet			0.248	
						Total Executed Quantity	**196.83**	
						Qty Carried to Summary	**196.83**	

9/2/24
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

BUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

Agency	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054
Description	Steel calculation sheet

PREMEASUREMENT SHEET

Measurements	Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
Chainage			mm			m	m	m	m	kg/m	Kg's
From To											
Item No.13	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500										
	Lintel -Ground floor										
	LB at entrance	1									
	top bars		10	2	2	6.80	0.00	6.80	13.60	0.62	8.38
	bottom bars		16	2	2	6.40	0.00	6.40	12.80	1.58	20.20
	2LGD 8# stirrups @ 150 C/C		8	44	44	0.80	0.00	0.80	35.20	0.39	13.89
									Subtotal		**42.48**
	Baby Pool										
	Side walls	2									
	Wall 1										
	12# @100 c/c Vertical bars at centre		12	7	13	3.20	0.00	3.20	42.88	0.89	38.07
	10# @100 c/c distribution		10	33	66	0.57	0.00	0.57	37.62	0.62	23.19
	Wall 2	2									
	12# @100 c/c Vertical bars at centre		12	7	13	2.70	0.00	2.70	36.18	0.89	32.12
	10# @100 c/c distribution		10	28	56	0.57	0.00	0.57	31.92	0.62	19.68
	Base Slab	1									
	12# @100 c/c Vertical bars at centre		12	28	28	3.20	0.00	3.20	89.60	0.89	79.55
	10# @100 c/c distribution		10	33	33	2.70	0.00	2.70	89.10	0.62	54.93
										Sub total	**247.55**
										Total	**290.02**
										Total Steel Quantity in tonne	**0.290**

Asst. Executive Engineer
Peenya Division
Yeshwanthpur Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client		Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.16		Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications							
Measurements taken on		22/01/2024							
		Quantity taken upto 4th RA Bill						176.45	
		Below Entrance Doors							
			cum	1	6.30	0.45	0.45	1.28	
							Total Executed Quantity	177.73	
							Qty Carried to Summary	177.73	

22/01/2024
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client		Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.18		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.							
Measurements taken on		12/02/2024							
		Quantity taken upto 4th RA Bill						**262.20**	
		Ground Floor							
		Lintel	Sqm	2	6.40		0.20	2.56	
							Total Executed Quantity	**264.76**	
							Qty Carried to Summary	**264.76**	

12/2/24
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CONTRACTOR

PMC

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From / To								
Item No.106	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe							
Measurements taken on	10/06/2024							
	Quantity taken upto 4th RA Bill						**148.50**	
	Present Bill Measurements							
	from sump to sintex	m	32	3.00			96.00	
	from sintex to two bathrooms ground floor	m	64	3.00			192.00	
						Total Executed Quantity	**436.50**	
						Qty Carried to Summary	**436.50**	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client		Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.114		Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia							
Measurements taken on		10/06/2024							
		Quantity taken upto 4th RA Bill						**100.00**	
		Present Bill Measurements							
		borewell water pipe	m	1	11.30			11.30	
		sump water connection	m	6	9.00			54.00	
							Total Executed Quantity	**165.30**	
							Qty Carried to Summary	**165.30**	

10/06/24
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

PRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

PREMEASUREMENT SHEET

Fifth & Final Bill

Client		Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054							
Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
From	To								
Item No.116		Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia							
Measurements taken on		10/06/2024							
		Quantity taken upto 4th RA Bill						**171.00**	
		Present Bill Measurements							
		Ground Floor							
		Waste water pipe	m	1	5.75			5.75	
							Total Executed Quantity	**176.75**	
							Qty Carried to Summary	**176.75**	

10/6/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR | PMC | ASSISTANT ENGINEER | ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.01		Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification									
			cum								
		Vide Total executed Quantity from premeasurement Page no. 01						4844.51			
		Total Executed Quantity						4844.51			
		Schedule B quantity						2892.86			
		Quantity upto125%						3616.08			
		QuantityAbove 125%						1228.43			
		DPQ paid in 1st RA Bill									
		Quantity upto125%						3616.08			
		QuantityAbove 125%						1001.07			
		DPQ paid in 2nd RA Bill									
		QuantityAbove 125%						162.46			
		DPQ paid in 3rd RA Bill									
		QuantityAbove 125%						61.84			
		Now to be Paid Quantity									
		QuantityAbove 125%						3.07	305.64	939.00	
Item No.02		Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement)									
		Item Not Operated									
Item No.03		Providing sand cement bed with 5% cement with all cum leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications.									
			Cum								
		Total Executed Quantity						458.71			
		Modified Schedule B quantity						458.71			
		DPQ paid in 1st RA Bill						458.71			
		Now to be Paid Quantity						Nil			
Item No.04		Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications.									
			Cum								
		Total Executed Quantity						1610.31			
		Schedule B quantity						269.12			
		Quantity upto125%						336.40			
		QuantityAbove 125%						1273.91			
		DPQ paid in 1st RA Bill									
		Quantity upto125%						336.40			
		QuantityAbove 125%						1209.62			
		DPQ paid in 2nd RA Bill									
		QuantityAbove 125%						47.28			
		DPQ paid in 3rd RA Bill									
		QuantityAbove 125%						17.01			
		Now to be Paid Quantity						Nil			
Item No.05		Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.									
			cum								
		Total Executed Quantity						4409.43			
		Schedule B quantity						2623.74			
		Quantity upto125%						3279.68			
		QuantityAbove 125%						1129.76			
		DPQ paid in 1st RA Bill									
		Quantity upto125%						3279.68			

CONTRACTOR

PMC

ASSISTANT ENGINEER

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Side Walls	Cum	-2	5.20	0.15	0.57	-0.89			
			Cum	-2	2.40	0.15	0.57	-0.41			
							Total Executed Quantity	**1253.12**			
							Modified Schedule B quantity	**1253.12**			
							DPQ paid in 1st RA Bill	**746.57**			
							DPQ paid in 2nd RA Bill	**323.19**			
							DPQ paid in 3rd RA Bill	**181.46**			
							Now to be Paid Quantity	**1.89**	**7500.00**	**14189.00**	
Item No.09		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, includng attached pilasters, buttresses, plinth and string courses etc.of all materials, labour complete as per specfiications									
Measurements taken on											
		Quantity taken upto 4th RA Bill						**1075.89**			
		Ground Floor									
		Baby Pool									
		Base Slab	Sqm	1	21.40		0.15	3.21			
		Side Walls	Sqm	4	8.40		0.57	19.15			
			Sqm	4	2.40		0.57	5.47			
		Deduction from Previous bill Qty									
		Base Slab	Sqm	-1	15.80		0.15	-2.37			
		Side Walls	Sqm	-4	5.20		0.57	-11.86			
			Sqm	-4	2.40		0.57	-5.47			
							Total Executed Quantity	**1084.02**			
							Schedule B quantity	**816.72**			
							Quantity upto125%	**1020.90**			
							QuantityAbove 125%	**63.12**			
							DPQ paid in 1st RA Bill				
							Quantity upto125%	**997.39**			
							DPQ paid in 2nd RA Bill				
							Quantity upto125%	**23.51**			
							QuantityAbove 125%	**35.29**			
							DPQ paid in 3rd RA Bill				
							QuantityAbove 125%	**19.70**			
							Now to be Paid Quantity				
							QuantityAbove 125%	**8.14**	**322.74**	**2626.00**	
Item No.10		Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick									
Measurements taken on											
		Quantity taken upto 4th RA Bill						**756.06**			
		Ground Floor									
		Steps Towards Baby Swimming Pool									
			Sqm	2	0.36		0.19	0.14			
			Sqm	2	0.33		0.38	0.25			
			Sqm	2	0.35		0.56	0.39			
		Swimming Pool Grating									
		Sides	Sqm	4	29.80		0.30	35.76			
		Bottom	Sqm	2	29.80	0.30		17.88			
		Front and Back	Sqm	4	0.30		0.30	0.36			
							Total Executed Quantity	**810.84**			
							Modified Schedule B quantity	**810.84**			

RUDRAPRASAD CONSULTANTS BANGALORE

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							DPQ paid in 3rd RA Bill	756.064			
							Now to be Paid Quantity	54.78	1230.08	67383.00	
Item No.11		Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications									
Measurements taken on											
		Ground Floor to 1st Floor									
		1st Flight(LHS)	Sqm		1	4.35	0.20	0.87			
		1st Flight(RHS)	Sqm		1	4.02	0.90	3.62			
		Landing	Sqm		1	1.75	0.90	1.58			
		2nd Flight									
		LHS	Sqm		1	5.25	0.90	4.73			
		RHS	Sqm		1	5.35	0.20	1.07			
		2nd Floor to Terrace Floor									
		5th Flight(LHS)	Sqm		1	5.35	0.92	4.92			
		RHS	Sqm		1	5.00	0.92	4.60			
		Landing	Sqm		1	1.70	0.92	1.56			
		6th Flight(LHS)	Sqm		1	5.20	0.92	4.78			
		RHS	Sqm		1	4.50	0.20	0.90			
		Terrace Floor									
			Sqm		1	14.78	0.92	13.60			
							Total Executed Quantity	42.23			
							Schedule B quantity	33.00			
							Quantity upto125%	41.25			
							Quantity Above 125%	0.98			
							Now to be Paid Quantity				
							Quantity upto125%	41.25	6638.76	273849.00	
							Quantity Above 125%	0.98	6632.08	6470.00	
Item No.12		Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as eper specifications and Extra for providing and mixing Waterproofing compound in cement plaster work at one kg per bag or in the proportion recomended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.									
			Sqm				Total Executed Quantity	989.01			
							Schedule B quantity	984.00			
							Quantity upto125%	989.01			
							DPQ paid in 3rd RA Bill	989.01			
							Now to be Paid Quantity	Nil			
Item No.13		Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500									
			tonne								
		Vide Total executed Quantity from premeasurement Page no. 04						196.83			
							Total Executed Quantity	196.83			
							Schedule B quantity	155.18			
							Quantity upto125%	193.98			
							QuantityAbove 125%	2.85			

C&R
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92
31/8/24

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		DPQ paid in 1st RA Bill						**86.40**			
		DPQ paid in 2nd RA Bill									
		Quantity upto125%						**83.17**			
		DPQ paid in 3rd RA Bill									
		Quantity upto125%						**24.41**			
		QuantityAbove 125%						**2.56**			
		Now to be Paid Quantity									
		QuantityAbove 125%						**0.29**	**66758.13**	**19361.00**	
		Item No.14 Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing cpmplete as per specification.									
		Measurements taken on									
		Ground Floor									
		Around Swimming Pool									
0.00	30.00	**East Side**	Sqm	1	30.00	3.45		103.50			
30.00	35.07		Sqm	1	5.07	3.45		17.49			
		Along Grating	Sqm	1	2.54	0.36		0.91			
			Sqm	1	2.65	0.45		1.19			
		North Side	Sqm	1	18.58	2.56		47.56			
		Sides	Sqm	1	2.74		0.28	0.77			
			Sqm	1	2.70		0.18	0.49			
0.00	15.00	**West Side**	Sqm	1	15.00	4.03		60.45			
15.00	26.70		Sqm	1	11.70	4.65		54.35			
26.70	35.10		Sqm	1	8.40	2.30		19.32			
		Along Grating	Sqm	1	2.70	0.42		1.13			
			Sqm	1	2.30	0.43		0.99			
		Skirting	Sqm	1	4.07		0.12	0.49			
		South Side	Sqm	1	18.45	2.39		44.10			
		Sides	Sqm	1	2.70		0.26	0.70			
			Sqm	1	2.57		0.24	0.62			
		Deduction									
		Columns	Sqm	-14	0.70	0.52		-5.10			
		Chambers	Sqm	-4	1.00	0.50		-2.00			
		Baby pool side	Sqm	-1	4.20	0.22		-0.92			
		Steps	Sqm	-1	0.94	0.94		-0.88			
		South Side MS Door	Sqm	-1	1.80	1.52		-2.74			
		Total Executed Quantity						**342.42**			
		Modified Schedule B quantity						**342.42**			
		Now to be Paid Quantity						**342.42**	**1171.80**	**401247.00**	
		Item No.15 Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size 40x20x20cms confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.									
		Measurements taken on									
		Quantity taken upto 4th RA Bill						**1303.44**			
		Present Bill Measurements									
		Ground Floor									
		Entrance	Sqm	1	6.31		4.27	26.94			
		Deduction-Main door	Sqm	-2	1.82		2.10	-7.64			
		Filtration Room above	Sqm	1	0.42		2.00	0.84			
		Steps Towards Swimming pool	Sqm	1	0.94		0.90	0.85			
			Sqm	1	0.94		0.60	0.56			
			Sqm	1	0.94		0.30	0.28			

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

21.83 31/8/24

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	Chainage in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Entrance Near Doors									
		Outside(Stage)	Sqm	1	5.65		0.20	1.13			
			Sqm	2	0.74		0.20	0.30			
		Ticket Counter									
		Stage	Sqm	1	1.49		0.20	0.30			
			Sqm	2	0.49		0.20	0.20			
							Total Executed Quantity	1327.19			
							Modified Schedule B quantity	1327.19			
							DPQ paid in 3rd RA Bill	1216.56			
							DPQ paid in 4th RA Bill	86.88			
							Now to be Paid Quantity	23.75	1011.96	24036.00	
Item No.16		Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications									
			Cum								
		Vide Total executed Quantity from premeasurement Page no. 05						177.73			
							Total Executed Quantity	177.73			
							Schedule B quantity	76.68			
							Quantity upto125%	95.85			
							QuantityAbove 125%	81.88			
							DPQ paid in 2nd RA Bill				
							Quantity upto125%	95.85			
							QuantityAbove 125%	55.63			
							DPQ paid in 3rd RA Bill				
							Quantity upto125%	24.98			
							Now to be Paid Quantity				
							QuantityAbove 125%	1.28	4359.96	5562.00	
Item No.17		Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.									
			Sqm								
							Total Executed Quantity	435.48			
							Modified Schedule B quantity	435.48			
							DPQ paid in 1st RA Bill	216.03			
							DPQ paid in 2nd RA Bill	147.00			
							DPQ paid in 3rd RA Bill	72.45			
							Now to be Paid Quantity	Nill			
Item No.18		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.									
			Sqm								
		Vide Total executed Quantity from premeasurement Page no. 06									
							Total Executed Quantity	264.76			
							Modified Schedule B quantity	264.76			
							DPQ paid in 1st RA Bill	59.70			
							DPQ paid in 3rd RA Bill	202.50			
							Now to be Paid Quantity	2.56	365.04	935.00	
Item No.19		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50m from Ground level									
			Sqm								
							Total Executed Quantity	110.82			
							Modified Schedule B quantity	110.82			
							DPQ paid in 1st RA Bill	28.13			
							DPQ paid in 3rd RA Bill	82.69			
							Now to be Paid Quantity	Nill			

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

31/8/24

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.20		Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For Outside Plastering									
Measurements taken on											
		Quantity taken upto 4th RA Bill						**1749.92**			
		Present Bill Measurements									
		Ground Floor									
		Entrance	Sqm	1	6.31		4.27	26.94			
		Deduction-Main door	Sqm	-2	1.82		2.10	-7.64			
		Filtration Room above	Sqm	1	0.42		2.00	0.84			
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		South Side Wall	Sqm	1	4.57		0.63	2.88			
			Sqm	1	10.21		0.63	6.43			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
		West Side Wall	Sqm	1	1.90		1.00	1.90			
							Total Executed Quantity	**1800.71**			
							Modified Schedule B quantity	**1800.71**			
							DPQ paid in 3rd RA Bill	**1561.68**			
							DPQ paid in 4th RA Bill	**188.24**			
							Now to be Paid Quantity	**50.78**	**277.56**	**14095.00**	
Item No.21		Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications Internal wall plastering									
Measurements taken on											
		Quantity taken upto 4th RA Bill						**1195.10**			
		Present Bill Measurements									
		Ground Floor									
		Entrance	Sqm	1	6.31		4.27	26.94			
		Deduction-Main door	Sqm	-2	1.82		2.10	-7.64			
		Filtration Room above	Sqm	1	0.42		2.00	0.84			
		Steps towards swimming pool	Sqm	1	0.94		0.90	0.85			
			Sqm	1	0.94		0.60	0.56			
			Sqm	1	0.94		0.30	0.28			
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		South Side Wall	Sqm	1	4.57		0.63	2.88			
			Sqm	1	10.21		0.63	6.43			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
		West Side Wall	Sqm	1	1.90		1.00	1.90			
							Total Executed Quantity	**1247.57**			
							Modified Schedule B quantity	**1247.57**			
							DPQ paid in 3rd RA Bill	**1195.10**			
							Now to be Paid Quantity	**52.47**	**306.72**	**16095.00**	

Asst. Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER 31/8/14

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.22		Providing and laying Hassan Green Granite flooring for Staircase, treads and rises using pre polished 20mm thick water cut green Granite Slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 lline grooves not more than 2mm wide for antiskidding, curing etc., complete.									
		Item Not Operated									
Item No.23		Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications of size 30 x 30 cms 6mm thick									
Measurements taken on											
		Quantity taken upto 4th RA Bill						**22.15**			
		Present Bill Measurements									
		Ground Floor									
		Baby Pool									
		Base Slab	Sqm	1	8.10	2.30		18.63			
		Side Walls	Sqm	2	8.10		0.57	9.23			
			Sqm	1	2.30		0.57	1.31			
		Deduction of Qty from Previous bill									
		Base Slab	Sqm	-1	4.90	2.40		-11.76			
		Side Walls	Sqm	-2	4.90		0.57	-5.59			
			Sqm	-1	2.40		0.57	-1.37			
							Total Executed Quantity	**32.61**			
							Modified Schedule B quantity	**32.61**			
							DPQ paid in 3rd RA Bill	**22.15**			
							Now to be Paid Quantity	**10.46**	**1270.08**	**13286.00**	
Item No.24		Providing ACE paint to external walls of approved colour and shade over prime's coat after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,hand lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)									
Measurements taken on											
		Quantity taken upto 4th RA Bill						**188.24**			
		Present Bill Measurements									
		Ground Floor									
		Ticket Counter beside	Sqm	1	1.43		2.40	3.43			
			Sqm	1	1.50		2.40	3.60			
			Sqm	1	3.90		3.76	14.66			
		North Side(Front Side)	Sqm	1	23.86		5.07	120.97			
		Deduction									
		Doors	Sqm	-2	1.80		2.10	-7.56			
		window	Sqm	-1	0.90	0.90		-0.81			
		ventilator	Sqm	-3	0.60		0.60	-1.08			
		Alumunium Louvers	Sqm	-1	3.47		2.02	-7.01			
			Sqm	-1	5.85		2.02	-11.82			
		Stair case	Sqm	-1	5.92		1.65	-9.77			
		filtration above									
		Alumunium Louvers	Sqm	-1	3.47		2.02	-7.01			
			Sqm	-1	5.85		2.02	-11.82			
		Filtration tank near transformer									
			Sqm	1	3.20		2.63	8.42			
		Compound Wall									
		West Side	Sqm	1	41.50		3.00	124.50			
		near Transformer	Sqm	1	4.41		2.63	11.60			
		Gents Change room									
		East Side	Sqm	1	4.00		4.65	18.60			
		Gents & Ladies back Side	Sqm	1	29.87		4.32	129.04			

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR | PMC | ASSISTANT ENGINEER | ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Deduction									
		Doors	Sqm	-2	0.90		2.00	-3.60			
		Ventilators	Sqm	-6	0.60		0.60	-2.16			
		Second Floor									
		Wall upto 4.5m LVL									
		Northenside Wall	Sqm	1	16.95		4.35	73.73			
		Southernside Wall	Sqm	1	23.90		4.35	103.97			
		Easternside and Westernside	Sqm	2	35.90		4.35	312.33			
		Easternside near Ladies Toilet	Sqm	1	4.10		4.35	17.84			
		Westernside near Staircase	Sqm	1	4.10		2.20	9.02			
		Deduction									
		W	Sqm	4	1.50		-2.07	-12.42			
		W1	Sqm	3	1.20		-1.20	-4.32			
		V	Sqm	4	0.75		-0.60	-1.80			
		Wall Above 4.5m LVL									
		Easternside and Westernside	Sqm	2	35.90		3.10	222.58			
		Landing above	Sqm	1	3.40		2.20	7.48			
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
							Total Executed Quantity	**1308.26**			
							Modified Schedule B quantity	**1308.26**			
							DPQ paid in 4th RA Bill	**188.24**			
							Now to be Paid Quantity	**1120.02**	**160.00**	**179203.00**	

Item No.25 Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications

Measurements taken on

		Quantity taken upto 4th RA Bill						**3930.15**			
		Present Bill Measurements									
		Groundfloor									
		Filtration and Balancing tank									
		North&South	Sqm	2	10.00		2.90	58.00			
		East&West	Sqm	2	3.50		2.90	20.30			
		Cealing	Sqm	1	10.00	3.50		35.00			
		steps side	Sqm	1	3.20		2.27	7.26			
		Swimming pool side	Sqm	1	10.30		3.28	33.78			
		Lobby									
		North Side	Sqm	1	6.31		4.71	29.72			
		Steps Beside	Sqm	2	1.00		0.80	1.60			
		top face	Sqm	1	1.00	0.18		0.18			
		South Side	Sqm	1	4.25		0.80	3.40			
		top face	Sqm	1	4.25	0.18		0.77			
		Towards Swimming pool									
		Right Side	Sqm	1	4.45		1.70	7.57			
		Ticket counter south	Sqm	1	6.96		5.62	39.12			
		Near Chamber	Sqm	1	1.43		3.40	4.86			
		Deduction									
		Ventilators	Sqm	-21	0.60		0.60	-7.56			
		Rolling Shutter	Sqm	-1	3.00		2.98	-8.94			
		Bathroom Door	Sqm	-2	0.75		2.00	-3.00			

377.95

222.06

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.97

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Internal plastering for columns									
			Sqm	14	2.10		2.00	58.80			
		Filtration tank above	Sqm	4	1.50		2.55	15.30			
		Staircase-Groundfloor									
		Flight-Steps	Sqm	32	0.02			0.72			
					Area of triangular portion=0.0225						
		Waist slab	Sqm	1	5.07		0.20	1.01			
		Landing-bottom face	Sqm	1	3.50		1.60	5.60			
		Flight-Bottom faces	Sqm	2	5.37		1.60	17.17			
		Staircase beam	Sqm	2	3.50		0.40	2.80			
		Landing-above wall	Sqm	1	3.40		1.19	4.05			
		Second Floor									
		Internal plastering for columns									
			Sqm	16	2.10		7.00	235.20			
			Sqm	8	1.50		7.00	84.00			
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		South Side Wall	Sqm	1	4.57		0.63	2.88			
			Sqm	1	10.21		0.63	6.43			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
		West Side Wall	Sqm	1	1.90		1.00	1.90			
							Total Executed Quantity	**4607.50**			
							Modified Schedule B quantity	**4607.50**			
							DPQ paid in 3rd RA Bill	**3930.15**			
							Now to be Paid Quantity	**677.35**	**60.48**	**40966.00**	

Item No.26: Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge with primer

Measurements taken on

Present Bill Measurements

Internal painting								
Groundfloor								
Filtration and Balancing tank								
North&South	Sqm	2	10.00		2.90	58.00		
East&West	Sqm	2	3.50		2.90	20.30		
Cealing	Sqm	1	10.00	3.50		35.00		
steps side	Sqm	1	3.20		2.27	7.26		
Swimming pool side	Sqm	1	10.30		3.28	33.78		
Lobby								
North Side	Sqm	1	6.31		4.71	29.72		
Steps Beside	Sqm	2	1.00		0.80	1.60		
top face	Sqm	1	1.00	0.18		0.18		
South Side	Sqm	1	4.25		0.80	3.40		
top face	Sqm	1	4.25	0.18		0.77		
Towards Swimming pool								
Right Side	Sqm	1	4.45		1.70	7.57		
Ticket counter south	Sqm	1	6.96		5.62	39.12		
Near Chamber	Sqm	1	1.43		3.40	4.86		

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92

PRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR | PMC | ASSISTANT ENGINEER | ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	Chainage in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Deduction									
		Ventilators	Sqm	-21	0.60		0.60	-7.56			
		Rolling Shutter	Sqm	-1	3.00		2.98	-8.94			
		Bathroom Door	Sqm	-2	0.75		2.00	-3.00			
		Internal plastering for columns									
			Sqm	14	2.10		2.00	58.80			
		Filtration tank above	Sqm	4	1.50		2.55	15.30			
		Staircase-Groundfloor									
		Flight-Steps	Sqm	32	0.02			0.72			
				Area of triangular portion=0.0225							
		Waist slab	Sqm	1	5.07		0.20	1.01			
		Landing-bottom face	Sqm	1	3.50		1.60	5.60			
		Flight-Bottom faces	Sqm	2	5.37		1.60	17.17			
		Staircase beam	Sqm	2	3.50		0.40	2.80			
		Landing-above wall	Sqm	1	3.40		1.19	4.05			
		ceiling	Sqm	1	23.92	39.70		949.62			
		Deduction	Sqm								
		Column									
		C1	Sqm	16	0.45	-0.60		-4.32			
		C2	Sqm	2	0.30	-0.45		-0.27			
			Sqm	3	0.30	-0.45		-0.41			
			Sqm	3	0.30	-0.45		-0.41			
		Beam Plastering									
		B2(450 X 1300)	Sqm	15	23.90		1.15	412.28			
			Sqm	1	23.90		1.30	31.07			
		B4(300 X 300)	Sqm	28	4.05		0.15	17.01			
		B3(300 X600)	Sqm	16	4.05		0.45	29.16			
		B3(300X 600)	Sqm	2	35.90		0.60	43.08			
		Gents Change Room									
		Long wall	Sqm	2	9.15		0.72	13.18			
		Short wall	Sqm	2	3.50		0.72	5.04			
		cealing	Sqm	1	9.15	3.50		32.03			
		Ladies Change Room									
		Long wall	Sqm	2	9.00		0.72	12.96			
		Short wall	Sqm	2	3.50		0.72	5.04			
		cealing	Sqm	1	9.00	3.50		31.50			
		Second Floor									
		ceiling									
		lobby	Sqm	1	6.00	3.70		22.20			
		office	Sqm	1	4.00	3.70		14.80			
		Gents Changing Room	Sqm	1	3.30	3.70		12.21			
		Ladies Changing Room	Sqm	1	3.30	3.70		12.21			
		Slab At 4.5 m lvl									
		Easternside and Westernside	Sqm	2	35.50	1.61		114.31			
		Beam plastering	Sqm	4	31.50		0.30	37.80			
		For Wall									
		Wall upto 4.5m LVL									
		Southernside Wall	Sqm	1	23.55		4.35	102.44			
		Easternside and Westernside Wall	Sqm	2	35.5		4.35	308.85			
		middle Portion Wall	Sqm	1	23.55		4.35	102.44			

241.56

2631.33

Asst. Executive Engine
Project Division
Yelahanka Zone
BBMP, Bangalore - 5

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	Chainage in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Lobby	Sqm	1	3.7		4.35	16.10			
			Sqm	1	12.49		4.35	54.33			
			Sqm	1	5.80		4.35	25.23			
			Sqm	1	3.70		2.20	8.14			
		Office	Sqm	2	3.70		4.35	32.19			
		Gents Changing Room	Sqm	2	3.70		2.25	16.65			
			Sqm	2	3.30		2.25	14.85			
		Ladies Changing Room	Sqm	2	3.70		2.25	16.65			
			Sqm	2	3.30		2.25	14.85			
		Deduction									
		W	Sqm	2	1.50		-2.07	-6.21			
		W1	Sqm	1.5	1.20		-1.20	-2.16			
		V	Sqm	2	0.75		-0.60	-0.90			
		D	Sqm	1	1.80		-2.10	-3.78			
		D1	Sqm	2	0.90		-2.10	-3.78			
		Terrace									
		Lobby Portion									
		North	Sqm	1	10.20		1.04	10.61			
			Sqm	1	5.80		1.04	6.03			
		East	Sqm	1	3.42		1.04	3.56			
		South	Sqm	1	5.47		0.46	2.52			
			Sqm	1	10.21		0.46	4.70			
		West	Sqm	2	1.90		0.89	3.38			
		East&west Slab	Sqm	2	3.42	2.20		15.05			
		Gutter	Sqm	2	3.42		0.43	2.94			
		Rolling shutter	Sqm	2	3.00		2.98	17.88			
							Total Executed Quantity	**2880.15**			
							Modified Schedule B quantity	**2880.15**			
							Now to be Paid Quantity	**2880.15**	**97.20**	**279950.00**	

Item No.27 Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,labour, curing complete as per specifications.Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3 12mm thick cost of materials complete as per specifications.

Sqm							
					Total Executed Quantity	**1780.61**	
					Schedule B quantity	**1378.56**	
					Quantity upto125%	**1723.20**	
					Quantity Above 125%	**57.41**	
					DPQ paid in 3rd RA Bill		
					Quantity upto125%	**1723.20**	
					Quantity Above 125%	**57.41**	
					Now to be Paid Quantity	**Nill**	

Item No.28 Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.30, I. 9.4) PRED.SR 2012-13

Each							
					Total Executed Quantity	**2.00**	
					Modified Schedule B quantity	**2.00**	
					DPQ paid in 1st RA Bill	**2.00**	
					Now to be Paid Quantity	**Nill**	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

31/8/24

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Yelahanka Zone
BBMP, Bangalore - 92.

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.29		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 0 to 50m									
			m								
								Total Executed Quantity	100.00		
								Modified Schedule B quantity	100.00		
								DPQ paid in 1st RA Bill	100.00		
								Now to be Paid Quantity	Nill		
Item No.30		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 50 to 100m									
			m								
								Total Executed Quantity	100.00		
								Modified Schedule B quantity	100.00		
								DPQ paid in 1st RA Bill	100.00		
								Now to be Paid Quantity	Nill		
Item No.31		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 100 to 150m									
			m								
								Total Executed Quantity	100.00		
								Modified Schedule B quantity	100.00		
								DPQ paid in 1st RA Bill	100.00		
								Now to be Paid Quantity	Nill		
Item No.32		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 150 to 200m									
			m								
								Total Executed Quantity	100.00		
								Modified Schedule B quantity	100.00		
								DPQ paid in 1st RA Bill	100.00		
								Now to be Paid Quantity	Nill		
Item No.33		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 200 to 250 m									
			m								
								Total Executed Quantity	100.00		
								Modified Schedule B quantity	100.00		
								DPQ paid in 1st RA Bill	100.00		
								Now to be Paid Quantity	Nill		
Item No.34		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 250 to 300 m									
			m								
								Total Executed Quantity	100.00		
								Modified Schedule B quantity	100.00		
								DPQ paid in 1st RA Bill	100.00		
								Now to be Paid Quantity	Nill		

PRAPRASAD CONSULTANTS BANGALORE

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054									
Chainage in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From / To										
Item No.35	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandam									
		m								
						Total Executed Quantity	140.00			
						Modified Schedule B quantity	140.00			
						DPQ paid in 1st RA Bill	140.00			
						Now to be Paid Quantity	Nill			
Item No.36	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work									
		m								
						Total Executed Quantity	65.00			
						Modified Schedule B quantity	65.00			
						DPQ paid in 1st RA Bill	65.00			
						Now to be Paid Quantity	Nill			
Item No.37	Providing and fixing 175mm Borewell Cap									
		Nos								
						Total Executed Quantity	2.00			
						Modified Schedule B quantity	2.00			
						DPQ paid in 1st RA Bill	2.00			
						Now to be Paid Quantity	Nill			
Item No.38	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 40 stage.									
		Nos								
						Total Executed Quantity	2.00			
						Modified Schedule B quantity	2.00			
						DPQ paid in 1st RA Bill	2.00			
						Now to be Paid Quantity	Nill			
Item No.39	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class									
		m								
						Total Executed Quantity	700.00			
						Modified Schedule B quantity	700.00			
						DPQ paid in 1st RA Bill	700.00			
						Now to be Paid Quantity	Nill			
Item No.40	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group -									
		m								
						Total Executed Quantity	1400.00			
						Modified Schedule B quantity	1400.00			
						DPQ paid in 1st RA Bill	1400.00			
						Now to be Paid Quantity	Nill			
Item No.41	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost)									
		Nos								
						Total Executed Quantity	2.00			

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Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Modified Schedule B quantity						**2.00**			
		DPQ paid in 1st RA Bill						**2.00**			
		Now to be Paid Quantity						**Nill**			
Item No.42		Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,									
			Nos								
		Total Executed Quantity						**1.00**			
		Modified Schedule B quantity						**1.00**			
		DPQ paid in 1st RA Bill						**1.00**			
		Now to be Paid Quantity						**Nill**			
Item No.43		Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/ I No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08									
			m								
		Total Executed Quantity						**45.00**			
		Modified Schedule B quantity						**45.00**			
		DPQ paid in 1st RA Bill						**45.00**			
		Now to be Paid Quantity						**Nill**			
Item No.44		Labour charges for laying of 1.1 K.V class UG cable									
			m								
		Total Executed Quantity						**45.00**			
		Modified Schedule B quantity						**45.00**			
		DPQ paid in 1st RA Bill						**45.00**			
		Now to be Paid Quantity						**Nill**			
Item No.45		Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR									
			Rmtr								
		Total Executed Quantity						**45.00**			
		Modified Schedule B quantity						**45.00**			
		DPQ paid in 1st RA Bill						**45.00**			
		Now to be Paid Quantity						**Nill**			
Item No.46		Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class									
			Rmtr								
		Total Executed Quantity						**6.00**			
		Modified Schedule B quantity						**6.00**			
		DPQ paid in 1st RA Bill						**6.00**			
		Now to be Paid Quantity						**Nill**			
Item No.47		Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia,									
			Rmtr								
		Total Executed Quantity						**4.00**			
		Modified Schedule B quantity						**4.00**			
		DPQ paid in 1st RA Bill						**4.00**			
		Now to be Paid Quantity						**Nill**			
Item No.48		Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete...									
			Nos								
		Total Executed Quantity						**6.00**			
		Modified Schedule B quantity						**6.00**			
		DPQ paid in 1st RA Bill						**6.00**			
		Now to be Paid Quantity						**Nill**			

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Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.49		Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications									
			Nos								
							Total Executed Quantity	2.00			
							Modified Schedule B quantity	2.00			
							DPQ paid in 1st RA Bill	2.00			
							Now to be Paid Quantity	Nill			
Item No.50		Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. No. 13.81.3 PWD SR 2007-08									
			Nos								
							Total Executed Quantity	2.00			
							Modified Schedule B quantity	2.00			
							DPQ paid in 1st RA Bill	2.00			
							Now to be Paid Quantity	Nill			
Item No.51		Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete									
			Nos								
							Total Executed Quantity	2.00			
							Modified Schedule B quantity	2.00			
							DPQ paid in 1st RA Bill	2.00			
							Now to be Paid Quantity	Nill			
Item No.52		Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications									
			Nos								
							Total Executed Quantity	2.00			
							Modified Schedule B quantity	2.00			
							DPQ paid in 1st RA Bill	2.00			
							Now to be Paid Quantity	Nill			
Item No.53		Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications									
			Nos								
							Total Executed Quantity	2.00			
							Modified Schedule B quantity	2.00			
							DPQ paid in 1st RA Bill	2.00			
							Now to be Paid Quantity	Nill			
Item No.54		Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum-control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 15HP to 30 HP Star Delta Starter									
			Nos								
							Total Executed Quantity	2.00			
							Modified Schedule B quantity	2.00			
							DPQ paid in 1st RA Bill	2.00			
							Now to be Paid Quantity	Nill			
Item No.55		Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,									
							Item Not Operated				
Item No.56		KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
			Nos								
							Total Executed Quantity	4.00			

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		Modified Schedule B quantity						4.00			
		DPQ paid in 1st RA Bill						4.00			
		Now to be Paid Quantity						Nill			
		Item No.57 Providing and laying wooden floor for batmitun court & Gym room using 50x75mm Runners at the intervals of 0.45 both ways using mathi/sal wood with nailing properly fixing to existing roof concrete and above the Runners the planks of teakwood using tung & groove system with necessary chemicals niles. polishing to be made for the teakwood planks. Approved Rate									
		Measurements taken on									
		First Floor									
		Yoga Room									
			Sqm	1	13.60	9.35		127.12			
		Near Door	Sqm	1	1.78	0.10		0.18			
		Skirting									
		East Side	Sqm	1	13.84		0.11	1.52			
		West Side	Sqm	1	13.30		0.11	1.46			
		North Side	Sqm	1	10.10		0.11	1.11			
		South Side	Sqm	1	9.80		0.11	1.08			
		Columns	Sqm	2	2.30		0.11	0.50			
		Second Floor									
		Badminton Court	Sqm	1	35.77	19.50		697.44			
		Deduction									
		Columns for Flooring	Sqm	-2	0.65	0.50		-0.65			
			Sqm	-1	0.65	0.39		-0.25			
			Sqm	-1	0.50	0.10		-0.05			
			Sqm	-1	0.47	0.20		-0.09			
		Door	Sqm	-1	1.78		0.11	-0.20			
		Column	Sqm	-2	0.65	0.50		-0.65			
			Sqm	-1	0.65	0.39		-0.25			
			Sqm	-1	0.50	0.10		-0.05			
			Sqm	-1	0.47	0.20		-0.09			
		Total Executed Quantity						**828.13**			
		Modified Schedule B quantity						**828.13**			
		Now to be Paid Quantity						**828.13**	**12000.00**	**9937507.00**	
		Item No.58 Providing and laying 1.35mm pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. Approved Rate									
			Sqm								
		Total Executed Quantity						**1032.75**			
		Modified Schedule B quantity						**1032.75**			
		DPQ paid in 4th RA Bill						**1032.75**			
		Now to be Paid Quantity						**Nill**			
		Item No.59 Supply, installtion, testing and commissioning of filters Commercial Bobin wound filter with 160mm fiange connection - 157 cumtr/hr Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work									
		Measurements taken on									
		Quantity taken upto 4th RA Bill						**2.00**			
		Present Bill Measurements									
		Near Baby pool	Nos	1				1.00			
		Total Executed Quantity						**3.00**			
		Schedule B quantity						**2.00**			

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		Quantity upto125%						**2.50**			
		QuantityAbove 125%						**0.50**			
		DPQ paid in 3rd RA Bill						**2.00**			
		Now to be Paid Quantity									
		Quantity upto125%						**0.50**	**535000.00**	**267500.00**	
		QuantityAbove 125%						**0.50**	**535000.00**	**267500.00**	
		Item No.60 Supply, installtion, testing and commissioning of VALVE BATTERY Frontal Valve Assembly 160 mm connections with Valve support and Brackets Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work									
			Set								
		Total Executed Quantity						**2.00**			
		Modified Schedule B quantity						**2.00**			
		DPQ paid in 3rd RA Bill						**2.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.61 Supply, installtion, testing and commissioning of RECIRCULATING PUMPS 10 HP monoblock centrifugal pump 400V 3ph discharge 45 LPS at 13m head suction size:150mm, delivery: 150mm includes 1no standby directions of the Engineer-In-charge of the work									
			Nos								
		Total Executed Quantity						**3.00**			
		Modified Schedule B quantity						**3.00**			
		DPQ paid in 3rd RA Bill						**3.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.62 Supply, installtion, testing and commissioning of FLOOR INLETS bottom inlet for concrete with S.S. screws made of ABS plastic. Max. flow: 10cum/hr 2 inches threaded fitting directions of the Engineer-In-charge of the work									
			Nos								
		Total Executed Quantity						**50.00**			
		Modified Schedule B quantity						**50.00**			
		DPQ paid in 3rd RA Bill						**50.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.63 Supply, installtion, testing and commissioning of GUTTER GRATINGS Made in white, U.V. Stabilized PP. Width: 245mm, Height : 35mm directions of the Engineer-In-charge of the work									
Measurements taken on											
		Present Bill Measurements									
			Nos	2	30			60.00			
		Total Executed Quantity						**60.00**			
		Modified Schedule B quantity						**60.00**			
		Now to be Paid Quantity						**60.00**	**3060.00**	**183600.00**	
		Item No.64 Supply, installtion, testing and commissioning of MAIN DRAIN GRATING COVER, material : SS 304 500mm x 500mmx6mm thick with slot openings of 6mm directions of the Engineer-In-charge of the work									
		Item Not Operated									
		Item No.65 Supply, installtion, testing and commissioning of STAINLESS STEEL PREFILTER 6 inches opening with threaded collar with sight glass, SS sieve, flow:170cum/hr Material: SS 304 directions of the Engineer-In-charge of the work									
			Nos								
		Total Executed Quantity						**3.00**			
		Modified Schedule B quantity						**3.00**			
		DPQ paid in 3rd RA Bill						**3.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.66 Supply, installtion, testing and commissioning of SUCTION INLETS ABS plastic, 2 inches external DIA glue type Flow:3.5 cum/hr, with threaded cap directions of the Engineer-In-charge of the work									
			Nos								
		Total Executed Quantity						**50.00**			
		Modified Schedule B quantity						**50.00**			
		DPQ paid in 3rd RA Bill						**50.00**			
		Now to be Paid Quantity						**Nill**			

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

PRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client	Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054									
Chainage in m From To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.67	Supply, installtion, testing and commissioning of STAINLESS STEEL LADDERS made of SS 316 with pipe dia 38mm with non skid steps with embossed finish or checkered finish overflow model No of steps = 3 directions of the Engineer-In-charge of the work									
Measurements taken on										
	Present Bill Measurements									
	Swimming Pool ladder	Nos	2				2.00			
						Total Executed Quantity	**2.00**			
						Modified Schedule B quantity	**2.00**			
						Now to be Paid Quantity	**2.00**	**51750.00**	**103500.00**	
Item No.68	No of steps = 4 directions of the Engineer-In-charge of the work									
Measurements taken on										
	Present Bill Measurements									
	Swimming Pool ladder	Nos	2				2.00			
						Total Executed Quantity	**2.00**			
						Modified Schedule B quantity	**2.00**			
						Now to be Paid Quantity	**2.00**	**55315.00**	**110630.00**	
Item No.69	No of steps = 5 directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.70	Supply, installtion, testing and commissioning of MAINTENANCE KIT COMPRISING OF: a) LEAFE RAKE Deep bag net made in polypropylene and polyester netting butterfly nut connection directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.71	Curved brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.72	Straight brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.73	Reinforced aluminium telescopic handle 2.4/4.8m with clip connection directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.74	Metallic Anodized Aluminium Vacuum head directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.75	Extensible handles for cleaning attachments in anodized aluminium which can be adapted to the entire range of cleaning equipment, brushes, leaf skimmers and scoops 10m long directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.76	Transparent blue plastic vacuum hose 11/2" dia 30mtr slong including hose cuffs for connection to suction inlets directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.77	Supply, installtion, testing and commissioning of TEST KIT for checking free Chlorine & pHTablet type DPD directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.78	Supply, installtion, testing and commissioning of POOL CLEANER trolly mounted with 1.5 Hp self priming pump with prefillter, starter and 63mm flexible hose directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.79	Supply, installtion, testing and commissioning of LANE SEPERATOR ROPES directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No.80	Supply, installtion, testing and commissioning of ANCHOR HOOKS STAINLESS STEEL fixed to end walls for lane ropes directions of the Engineer-In-charge of the work									
Measurements taken on										
	Present Bill Measurements									
		Nos	15				15.00			

RUDRAPRASAD CONSULTANTS BANGALORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

31/8/24

CONTRACTOR | PMC | ASSISTANT ENGINEER | ASSISTANT EXECUTIVE ENGINEER

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	Chainage in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Total Executed Quantity						**15.00**			
		Schedule B quantity						**12.00**			
		Quantity upto125%						**15.00**			
		Now to be Paid Quantity									
		Quantity upto125%						**15.00**	**3300.00**	**49500.00**	
		Item No.81 Supply, installtion, testing and commissioning of CONTRL PANNEL WIRING, floor mounted CP, Control of Mtrs, volts meter, 3 Phase indicater System, Change over shutter, ELCB, MCB, Pump, coverage to each indicator relay, cable and conduit with pump engineers specification directions of the Engineer-In-charge of the work									
			Nos								
		Total Executed Quantity						**1.00**			
		Modified Schedule B quantity						**1.00**			
		DPQ paid in 3rd RA Bill						**1.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.82 Supply, installtion, testing and commissioning of GAS CHLORINATION SYSTEM vacuum type cylinder mounted gas (DCM) chlorinator capacity 0-500 gms/hr, chlorination system consisting of filter Assembly, Vacuum Regulator, flow meter assembly, control valve assembly, injector assembly including booster pump assembly and piping complete directions of the Engineer-In-charge of the work									
		Item Not Operated									
		Item No.83 Supply, installtion, testing and commissioning of BUTTERFLY VALVES Wafer type PN 10 STD,replacable EPDM sleeve CI body with SS316 disc a) 10 INCHES directions of the Engineer-In-charge of the work									
			Nos								
		Total Executed Quantity						**10.00**			
		Schedule B quantity						**2.00**			
		Quantity upto125%						**2.50**			
		QuantityAbove 125%						**7.50**			
		DPQ paid in 3rd RA Bill									
		Quantity upto125%						**2.50**			
		QuantityAbove 125%						**7.50**			
		Now to be Paid Quantity						**Nill**			
		Item No.84 Supply, installtion, testing and commissioning of NON RETURN VALVES Material: gun metal Size: 8 inches directions of the Engineer-In-charge of the work									
			Nos								
		Total Executed Quantity						**3.00**			
		Schedule B quantity						**2.00**			
		Quantity upto125%						**3.00**			
		DPQ paid in 3rd RA Bill									
		Quantity upto125%						**3.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.85 Supply, installtion, testing and commissioning of UPVC PIPES a) 400 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**77.00**			
		Modified Schedule B quantity						**77.00**			
		DPQ paid in 3rd RA Bill						**77.00**			
		Now to be Paid Quantity						**Nill**			
		Item No.86 d) 63 MM DIA 10KG/SQCM directions of the Engineer-In-charge of the work									
			m								
		Total Executed Quantity						**61.00**			
		Schedule B quantity						**49.00**			
		Quantity upto125%						**61.00**			
		DPQ paid in 1st RA Bill						**12.00**			
		DPQ paid in 3rd RA Bill						**49.00**			
		Now to be Paid Quantity						**Nill**			

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

CONTRACTOR PMC ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHANAGARA, BYATARAYANAPURA WARD NO.07

MEASUREMENT SHEET

Fifth & Final Bill

Client: Sri.K.Somappa No.139/A,6th Main Mathikere,Bangalore-560054

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.87		c) 160 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work									
			m								
							Total Executed Quantity	220.00			
							Modified Schedule B quantity	220.00			
							DPQ paid in 3rd RA Bill	220.00			
							Now to be Paid Quantity	Nill			
Item No.88		Supply, installtion, testing and commissioning of UPVC ELBOW 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	10.00			
							Modified Schedule B quantity	10.00			
							DPQ paid in 3rd RA Bill	10.00			
							Now to be Paid Quantity	Nill			
Item No.89		c) 400 MM directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	9.00			
							Modified Schedule B quantity	9.00			
							DPQ paid in 3rd RA Bill	9.00			
							Now to be Paid Quantity	Nill			
Item No.90		e)160 MM directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	28.00			
							Modified Schedule B quantity	28.00			
							DPQ paid in 3rd RA Bill	28.00			
							Now to be Paid Quantity	Nill			
Item No.91		Supply, installtion, testing and commissioning of UPVC TEE 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	49.00			
							Modified Schedule B quantity	49.00			
							DPQ paid in 3rd RA Bill	49.00			
							Now to be Paid Quantity	Nill			
Item No.92		c) 400 MM directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	10.00			
							Modified Schedule B quantity	10.00			
							DPQ paid in 3rd RA Bill	10.00			
							Now to be Paid Quantity	Nill			
Item No.93		e)160 MM directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	7.00			
							Modified Schedule B quantity	7.00			
							DPQ paid in 3rd RA Bill	7.00			
							Now to be Paid Quantity	Nill			
Item No.94		Supply, installtion, testing and commissioning of UPVC REDUCER 6 KG/SQCM a) 160/400 directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	7.00			
							Modified Schedule B quantity	7.00			
							DPQ paid in 3rd RA Bill	7.00			
							Now to be Paid Quantity	Nill			
Item No.95		63/160 directions of the Engineer-In-charge of the work									
			Nos								
							Total Executed Quantity	49.00			

RUDRAPRASAD CONSULTANTS BANGALORE

31/8/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CONTRACTOR | PMC | ASSISTANT ENGINEER | ASSISTANT EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGRA PALIKE

FORM OF PROPOSAL FOR GRANTING EXTENSION OF TIME

1	Name of Work	**Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07**
2	Estimate cost / Amount	Rs..700.00 Lakhs
3	Name of Contractor	Sri.K Somappa
4	Amount of Contract	Rs.7,00,75,262.00 (Exculding GST)
5	Agreement No	12/2018-19 Date:07-09-2018
6	No. and date under which the work order has been issued	12/2018-19 Date:07-09-2018
7	Time limit originally fixed for completion	350 Days
8	Date of application by the contractor for granting extension	20-06-2024
9	Date of receipt of application in the sub-division office	20-06-2024
10	Extension granted if any:	—
	1. From	01-09-2019
	2. To	31-01-2023
11	Work carriedout by the contractor during the original period stipulated in contract	Rs.33583243.00
12	Work carriedout during the first period of extension	Rs.20291804.00
13	Work carriedout during and extension	Rs.53875047.00
14	Time now applied for	upto 31-08-2024

15	Date of recommending time limit applied	upto 31-08-2024
16	Whether the original application of contractor is enclosed	Yes
17	Balance work remaining to be done.	Rs.16200215.00
18	Probable time required for completion of remaining work	31-08-2024
19	Cost of work charged establishment charge on the work after the expiry of original period	-
20	Whether the notice as per clause has been issued	-
21	Report of Asst Executive Engineer	Delay, due to covid-19 and delay in getting approval for construction of additional floor of swimming pool building. Hence EOT may be accorded till 31-08-2024.
22	Recommendation of Executive Engineer	Delay, due to covid-19 and delay in getting approval for construction of additional floor of swimming pool building. Hence EOT may be accorded till 31-08-2024.

Assistant / Junior Engineer
Project Division, BBMP

Asst Executive Engineer
Project Division, BBMP

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer, Project Division
Yelahanka Zone, BBMP

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Chief Engineer
Yelahanka Zone, BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
Item No 01		Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification									
		Footings									
		C1	Cum	16	4.00	5.00	6.30	2016.00			
		Building footings									
		staircase									
		C2	Cum	2	4.20	3.50	3.60	105.84			
		C3	Cum	1	4.00	2.60	3.60	37.44			
		C4	Cum	1	3.50	1.90	3.60	23.94			
		balancing tank									
		C3	Cum	2	4.00	2.60	5.55	115.44			
		C4	Cum	2	3.50	1.90	5.55	73.82			
		Main pool	Cum	1	10.30	18.60	3.01	576.66			
			Cum	1	10.00	18.60	3.65	678.90			
			Cum	1	10.30	18.60	4.20	804.64			
		Balancing tank	Cum	1	10.60	4.10	3.75	162.98			
		gutter	Cum	2	30.60	0.40	0.40	9.79			
		Along grid A-A & C-C	Cum	2	3.80	0.30	1.80	4.10			
		Along grid 10-10 & 9-9	Cum	2	6.50	0.30	1.95	7.61			
		SSM									
		Ladies changing Room	cum	1	9.00	0.90	1.95	15.80			
			cum	2	3.50	0.90	1.95	12.29			
		Gents changing Room	cum	1	9.40	0.90	1.95	16.50			
			cum	2	3.50	0.90	1.95	12.29			
		Road Side	cum	1	30.80	0.90	1.95	54.05			
		Entry Lounge	cum	1	6.60	0.90	1.95	11.58			
		SSM for compound wall									
		Easternside compound Wall	cum	1	44.40	0.90	1.00	39.96			
		SSM Below Ground									
		SSM for Compound Wall									
		Westernside	Cum	1	37.25	0.90	1.05	35.20			
		Northenside	Cum	1	1.46	0.90	1.05	1.38			
		Drain									
		Easternside									
0.00	30.00		Cum	1	30.00	0.86	0.65	16.77			
30.00	35.70		Cum	1	5.70	0.86	0.60	2.94			
		Pipe Line									
		Westernside	Cum	1	35.70	0.30	0.30	3.21			
		Southernside	Cum	1	29.50	0.30	0.30	2.66			
		Deduction	Cum								
		for Chamber	Cum	4	-0.90	0.30	0.30	-0.32			
		Below Entrance Doors-SSM below									
			Cum	1	6.30	0.65	0.75	3.07			
							Total Executed Quantity	**4844.51**			
							Tender Quantity	**2892.86**			
							Quantity upto125%	**3616.00**	**305.64**	**1105194.24**	
							Quantity above 125%	**1228.43**	**305.64**	**375458.63**	
Item No. 02		Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement)									
		Item Not Operated									

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
Item No. 03		Providing sand cement bed with 5% cement with all cum leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications.									
		Main pool	Cum	1	10.30	18.60	0.45	86.21			
			Cum	1	10.00	18.60	0.45	83.70			
			Cum	1	10.30	18.60	0.45	86.21			
		Balancing tank	Cum	1	10.60	4.10	0.45	19.56			
		Footings									
		C1	Cum	16	5.00	4.00	0.45	144.00			
		Building footings						0.00			
		staircase									
		C2	Cum	2	4.20	3.50	0.45	13.23			
		C3	Cum	1	4.00	2.60	0.45	4.68			
		C4	Cum	1	1.90	3.50	0.45	2.99			
		Along grid A-A & C-C	Cum	2	3.80	0.30	0.45	1.03			
		Along grid 10-10 & 9-9	Cum	2	6.50	0.30	0.45	1.76			
		balancing tank									
		C3	Cum	1	4.00	2.60	0.45	4.68			
		C4	Cum	1	1.90	3.50	0.45	2.99			
		C3	Cum	1	4.00	2.60	0.45	4.68			
		C4	Cum	1	1.90	3.50	0.45	2.99			
							Total Executed Quantity	**458.71**	**3349.08**	**1536248.11**	
							Tender Quantity	**800.00**			
Item No.04		Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications.									
		Footings									
		C1	Cum	16	5.00	4.00	4.2	1344.00			
		Building footings									
		staircase									
		C2	Cum	2	4.20	3.50	1.70	49.98			
		C3	Cum	1	4.00	2.60	1.70	17.68			
		C4	Cum	1	1.90	3.50	1.80	11.97			
		balancing tank									
		C3	Cum	1	4.00	2.60	3.55	36.92			
		C4	Cum	1	1.90	3.50	3.65	24.27			
		C3	Cum	1	4.00	2.60	3.55	36.92			
		C4	Cum	1	1.90	3.50	3.65	24.27			
		Ladies Changing Room	cum	1	3.50	5.00	0.60	10.50			
		Gents Changing Room	cum	1	3.50	5.00	0.60	10.50			
		Shower area	cum	1	3.65	12.00	0.60	26.28			
		Ladies Changing Room	Cum	1	4.10	3.50	0.60	8.61			
		Gents Changing Room	Cum	1	4.00	3.50	0.60	8.40			
							Total Executed Quantity	**1610.31**			
							Tender Quantity	**269.12**			
							Quantity upto125%	**336.40**	**137.16**	**46140.62**	
							Quantity above 125%	**1273.91**	**137.16**	**174728.81**	
Item No. 05		Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.									
			Cum	Qty vide I.No.1 (-) It.No.3				**3071.13**			
			Cum	Qty vide It.No.E2				**1338.30**			
							Total Executed Quantity	**4409.43**			
							Tender Quantity	**2623.74**			
							Quantity upto 125%	**3279.68**	**108.00**	**354204.90**	
							Quantity Above 125%	**1129.76**	**110.15**	**124442.56**	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No. 06		Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.									
		Footings									
		C1	Cum	16	5.00	4.00	0.45	144.00			
		Building footings									
		staircase									
		C2	Cum	2	4.20	3.50	0.45	13.23			
		C3	Cum	1	4.00	2.60	0.45	4.68			
		C4	Cum	1	1.90	3.50	0.45	2.99			
		Along grid A-A & C-C	Cum	2	3.80	0.30	0.45	1.03			
		Along grid 10-10 & 9-9	Cum	2	6.50	0.30	0.45	1.76			
		balancing tank									
		C3	Cum	2	4.00	2.60	0.45	9.36			
		C4	Cum	2	1.90	3.50	0.45	5.99			
		Main pool	Cum	1	10.30	18.60	0.45	86.21			
			Cum	1	10.00	18.60	0.45	83.70			
			Cum	1	10.30	18.60	0.45	86.21			
		Balancing tank	Cum	1	10.60	4.10	0.45	19.56			
		SSM for Changing Room									
		Ladies changing Room	Cum	1	9.00	0.90	0.20	1.62			
			Cum	2	3.50	0.90	0.20	1.26			
		Gents changing Room	Cum	1	9.40	0.90	0.20	1.69			
			Cum	2	3.50	0.90	0.20	1.26			
		Road Side	Cum	1	30.80	0.90	0.20	5.54			
		Entry Lounge	Cum	1	6.60	0.90	0.20	1.19			
		SSM for compound wall									
		Easternside compound Wall	Cum	1	44.40	0.90	0.15	5.99			
		for Compound Wall									
		SSM Below Ground									
		Westernside	Cum	1	37.25	0.90	0.20	6.71			
		Northenside	Cum	1	1.46	0.90	0.20	0.26			
		Below Entrance Doors-SSM below									
			Cum	1	6.30	0.65	0.15	0.61			
								Total Executed Quantity	**484.85**		
								Tender Quantity	**287.22**		
								Quantity upto125%	**359.03**	**2283.12**	**819697.16**
								Quantity above 125%	**125.82**	**2283.12**	**287250.86**
Item No.7		Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.									
		Footings									
		C1	Cum	16	5.00	4.00	0.40	128.00			
		Building footings									
		staircase									
		C2	Cum	2	4.20	3.50	0.40	11.76			
		C3	Cum	1	4.00	2.60	0.40	4.16			
		C4	Cum	1	1.90	3.50	0.40	2.66			
		Along grid A-A & C-C	Cum	2	3.80	0.30	0.40	0.91			
		Along grid 10-10 & 9-9	Cum	2	6.50	0.30	0.40	1.56			
		balancing tank									
		C3	Cum	2	4.00	2.60	0.40	8.32			
		C4	Cum	2	3.50	1.90	0.40	5.32			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Main pool	Cum	1	30.60	18.60	0.40	227.66			
		Balancing tank	Cum	1	10.60	4.10	0.40	17.38			
		Arround Pool									
		west & Easternside	cum	2	35.90	2.60	0.15	28.00			
		northernside	cum	1	18.80	2.60	0.15	7.33			
		Southernside	cum	1	18.80	2.70	0.15	7.61			
		Arround building	cum								
		Easternside	cum	1	39.80	1.80	0.15	10.75			
		Westernside									
		Rectangular	cum	1	40.30	1.84	0.15	11.12			
		triangular	cum	1	2.25	40.30	0.15	6.80			
				0.5X2.25X40.3X0.15=6.8							
		Northernside	cum								
		Rectangular	cum	1	0.80	25.80	0.15	3.10			
		triangular	cum	0.50	1.50	25.90	0.15	2.91			
				0.5X1.5X25.9X0.15=2.91							
		changing room area									
		Ladies Changing Room	cum	1	3.50	5.00	0.30	5.25			
		Gents Changing Room	cum	1	3.50	5.00	0.30	5.25			
		Shower area	cum	1	3.65	12.00	0.30	13.14			
		Entry Lounge	cum	1	13.30	3.50	0.30	13.97			
		SSM below									
		Ladies changing Room	cum	1	9.00	0.90	0.20	1.62			
			cum	2	3.50	0.90	0.20	1.26			
		Gents changing Room	cum	1	9.40	0.90	0.20	1.69			
			cum	2	3.50	0.90	0.20	1.26			
		Road Side	cum	1	30.80	0.90	0.20	5.54			
		Entry Lounge	cum	1	6.60	0.90	0.20	1.19			
		SSM for compound wall									
		Easternside compound Wall	cum	1	44.40	0.90	0.15	5.99			
		SSM above									
		Ladies changing Room	cum	1	9.00	0.45	0.20	0.81			
			cum	2	3.50	0.45	0.20	0.63			
		Gents changing Room	cum	1	9.40	0.45	0.20	0.84			
			cum	2	3.50	0.45	0.20	0.63			
		Road Side	cum	1	30.80	0.45	0.20	2.77			
		Entry Lounge	cum	1	6.60	0.45	0.20	0.59			
		SSM for compound wall									
		Easternside compound Wall	cum	1	44.40	0.45	0.15	3.00			
		SSM Below Ground									
		SSM for Compound Wall									
		Westernside	Cum	1	37.25	0.9	0.15	5.03			
		Northenside	Cum	1	1.46	0.9	0.15	0.20			
		Ladies Changing Room	Cum	1	4.1	3.5	0.3	4.31			
		Gents Changing Room	Cum	1	4	3.5	0.3	4.20			
		Drain PCC									
		Easternside									
0	30		Cum	1	30	0.86	0.15	3.87			
30	35.7		Cum	1	5.7	0.86	0.15	0.74			
		Below Entrance Doors-SSM below									
			Cum	1	6.30	0.65	0.15	0.61			
		SSM above	Cum	1	6.30	0.45	0.20	0.57			
							Total Executed Quantity	**570.31**			
							Tender Quantity	**245.97**			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
							Quantity upto125%	307.46	5449.68	1675572.24	
							Quantity above 125%	262.85	5449.68	1432459.70	
Item No 8		Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixedf concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25(for Side Walls and Bottom)									
		Below ground level									
		Footings									
		C1	Cum	16	5.00	4.00	0.90	288.00			
		Building footings									
		staircase									
		C2	Cum	2	4.20	3.50	0.70	20.58			
		C3	Cum	1	4.00	2.60	0.70	7.28			
		C4	Cum	1	3.50	1.90	0.60	3.99			
		Balancing tank									
		C3	Cum	2	4.00	2.60	0.70	14.56			
		C4	Cum	2	3.50	1.90	0.60	7.98			
		Main pool base	Cum	1	30.60	18.60	0.45	256.12			
		Balancing tank base	Cum	1	10.60	4.10	0.45	19.56			
		Columns									
		C1	Cum	16	0.60	0.45	4.10	17.71			
		staircase									
		C2	Cum	2	0.45	0.30	1.60	0.43			
		C3	Cum	1	0.45	0.30	1.60	0.22			
		C4	Cum	1	0.45	0.30	1.70	0.23			
		Balancing tank									
		C3	Cum	2	0.45	0.30	3.45	0.93			
		C4	Cum	2	0.45	0.30	3.55	0.96			
		Above ground level									
		Columns									
		C1	Cum	16	0.60	0.45	1.20	5.18			
		staircase									
		C2	Cum	2	0.45	0.30	1.20	0.32			
		C3	Cum	1	0.45	0.30	1.20	0.16			
		C4	Cum	1	0.45	0.30	1.20	0.16			
		Retaining wall - Pool	Cum	2	10.30	0.30	2.00	12.36			
			Cum	2	10.00	0.30	1.45	8.70			
			Cum	2	10.30	0.30	0.90	5.56			
		pool-Cross wall	Cum	2	18.60	0.30	2.30	25.67			
		Retaining wall - Balancing tank	Cum	2	10.60	0.30	3.20	20.35			
		Balancing tank Cross wall	Cum	2	4.10	0.30	3.20	7.87			
		Gutter	Cum	2	30.60	0.40	0.10	2.45			
			Cum	2	30.60	0.30	0.10	1.84			
		balancing tank roof slab	Cum	1	6.86	4.10	0.30	8.44			
		Building plinth beam									
		Along grid B-B	Cum	1	31.50	0.30	0.30	2.84			
		Along grid E-E	Cum	1	31.50	0.30	0.30	2.84			
		Along grid A-A & C-C	Cum	2	3.80	0.30	0.30	0.68			
		Along grid 10-10 & 9-9	Cum	2	6.50	0.30	0.45	1.76			
		Between grid 8-9	Cum	2	4.70	0.30	0.30	0.85			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Columns									
		C1									
		Along Grid B	Cum	8	0.60	0.45	3.25	7.02			
		Along Grid E	Cum	8	0.60	0.45	3.25	7.02			
		C2									
		Along Grid C	Cum	2	0.45	0.30	3.15	0.85			
		C3									
		Along Grid D	Cum	2	0.45	0.30	3.15	0.85			
		Grid A-9	Cum	1	0.45	0.30	3.15	0.43			
		C4									
		Along Grid F	Cum	2	0.45	0.30	3.15	0.85			
		Grid A-10	Cum	1	0.45	0.30	3.15	0.43			
		Beams									
		B1(300 X 600)									
		Along Grid 10&9	Cum	2	23.90	0.30	0.43	6.09			
		B2(450 X 1400)	Cum								
		Along Grid 1 to 9	Cum	8	23.90	0.45	1.23	105.40			
		B3(200X 600)	Cum								
		Along Grid A & F	Cum	2	4.00	0.20	0.43	0.68			
			Cum	14	4.05	0.20	0.43	4.82			
			Cum	1	3.50	0.20	0.43	0.30			
		B4(300 X 450)									
		Along Grid B & E									
			Cum	2	4.00	0.30	0.28	0.66			
			Cum	12	4.05	0.30	0.28	4.01			
		Along D between 10&9	Cum	1	3.50	0.30	0.28	0.29			
		SB(200 X 600)	Cum	1	3.50	0.30	0.28	0.29			
		Roof Slab									
			Cum	1	40.00	23.9	0.18	167.30			
		Balancing tank roof	Cum	1	10.60	4.10	0.15	6.52			
		Short wall	Cum	2	4.10	0.30	1.00	2.46			
		long wall	Cum	2	10.60	0.30	1.00	6.36			
		Deduction									
		Staircase	Cum	1	6.60	3.70	0.18	-4.27			
		Rolling Shutter	Cum	1	3.00	2.10	0.30	-1.89			
		V	Cum	5	0.75	0.60	0.30	-0.68			
		Staircase									
		Waist slab bottom	Cum	2	5.43	1.60	0.20	3.48			
		Landing bottom	Cum	1	3.50	1.50	0.20	1.05			
		Rise and threads	Cum	33		1.60	0.02	1.06			
					triangular area 0.5*0.3*0.15=0.022						
		SB(200 X 600)	Cum	1	3.50	0.20	0.60	0.42			
		Steps in entry lounge	Cum	5	1.80	0.30	0.15	0.41			
			Cum	1	1.80		0.56	1.01			
					triangular area=0.5*1.2*0.75=0.56						
		Ground Floor									
		Baby Pool	Cum								
		Base Slab	Cum	1	5.20	2.70	0.15	2.11			
		Side Walls	Cum	2	5.20	0.15	0.57	0.89			
			Cum	2	2.40	0.15	0.57	0.41			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
		Column For Compound Wall									
		Easternside									
			Cum	2	0.30	0.45	3.07	0.83			
			Cum	4	0.30	0.45	3.86	2.08			
			Cum	3	0.30	0.45	3.84	1.56			
			Cum	4	0.30	0.45	3.80	2.05			
		Plinth Beam for Compound									
		Westernside									
			Cum	1	30.00	0.30	0.30	2.70			
			Cum	1	5.50	0.30	0.30	0.50			
			Cum	1	1.50	0.30	0.30	0.14			
		Easternside									
			Cum	2	5.20	0.30	0.30	0.94			
			Cum	2	12.20	0.30	0.30	2.20			
			Cum	2	11.20	0.30	0.30	2.02			
			Cum	2	12.10	0.30	0.30	2.18			
		Deduction									
		Column For Compound Wall									
		Easternside									
			Cum	4	0.30	0.30	-0.30	-0.11			
			Cum	8	0.30	0.30	-0.30	-0.22			
			Cum	6	0.30	0.30	-0.30	-0.16			
			Cum	8	0.30	0.30	-0.30	-0.22			
		Lintel For Compound wall									
		Westernside									
			Cum	2	30.00	0.20	0.30	3.60			
			Cum	2	5.50	0.20	0.30	0.66			
			Cum	2	1.50	0.20	0.30	0.18			
		Easternside	Cum								
			Cum	2	5.20	0.20	0.30	0.62			
			Cum	2	12.20	0.20	0.30	1.46			
			Cum	2	11.20	0.20	0.30	1.34			
			Cum	2	12.10	0.20	0.30	1.45			
		Deduction									
		D	Cum	2	0.90	0.20	-0.30	-0.11			
		Column For Compound Wall									
		Easternside									
			Cum	4	0.30	0.20	-0.30	-0.07			
			Cum	8	0.30	0.20	-0.30	-0.14			
			Cum	6	0.30	0.20	-0.30	-0.11			
			Cum	8	0.30	0.20	-0.30	-0.14			
		Changing Room Roof Slab									
		Ladies Changing Room	Cum	1	9.40	4.00	0.15	5.64			
		Gents Changing Room	Cum	1	9.50	3.90	0.15	5.56			
		Lintel									
		Ladies Changing Room	Cum	2	4.00	0.20	0.30	0.48			
			Cum	1	9.40	0.20	0.30	0.56			
		Gents Changing Room	Cum	2	3.90	0.20	0.30	0.47			
			Cum	1	9.50	0.20	0.30	0.57			
		RoadSide	Cum	1	30.80	0.20	0.30	1.85			
		Mass Concrete									
		Concerete pump Platform	Cum	1	3.00	1.20	0.30	1.08			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
		Second Floor									
		Column									
		C1									
		Along Grid B	Cum	8	0.60	0.45	7.60	16.42			
		Along Grid E	Cum	8	0.60	0.45	7.60	16.42			
		C2									
		Along Grid C -10	Cum	1	0.45	0.30	7.60	1.03			
		Along Grid C -9	Cum	1	0.45	0.30	7.60	1.03			
		C3									
		Along Grid D-10	Cum	1	0.45	0.30	7.60	1.03			
		Grid A-9	Cum	2	0.45	0.30	7.60	2.05			
		C4									
		Along Grid 10	Cum	2	0.45	0.30	7.60	2.05			
		Grid F	Cum	1	0.45	0.30	7.60	1.03			
		Second Floor Roof Beam									
		B4(300X300)	Cum	1	3.50	0.30	0.15	0.16			
		B8(200X600)	Cum	1	3.50	0.20	0.45	0.32			
		B9(200X600)	Cum	2	3.50	0.20	0.45	0.63			
		B10(300X600)	Cum	2	22.10	0.30	0.45	5.97			
		B11(450X1350)	Cum	1	22.70	0.45	1.20	12.26			
		B12(200X450)	Cum	2	32.30	0.20	0.30	3.88			
		Through Lintel									
		Northenside outer Wall	Cum	1	16.05	0.20	0.30	0.96			
		Middle portion wall	Cum	1	16.05	0.20	0.30	0.96			
		Offiice	Cum	2	3.70	0.20	0.30	0.44			
		Ladies Changing Room	Cum	2	3.70	0.20	0.30	0.44			
		Second Floor Roof Slab									
		Badmiton Court Side Slab Projection	Cum	2	36.20	1.80	0.15	19.55			
		Changing Room and entry lobby	cum	1	17.20	4.10	0.15	10.58			
		Deduction For Slab									
		C1	Cum	16	0.20	0.45	-0.15	-0.22			
		C2	Cum	2	0.45	0.30	-0.15	-0.04			
		C3	Cum	2	0.45	0.30	-0.15	-0.04			
		C4	Cum	2	0.45	0.30	-0.15	-0.04			
		Mass Concrete									
		Ladies changing Room	Cum	1	3.30	3.50	0.15	1.73			
		Gents Changing Room	Cum	1	3.30	3.50	0.15	1.73			
		Gutter Beam									
		Easternside and Westernside	Cum	2	36.40	0.60	0.45	19.66			
			Cum	2	36.40	0.45	0.15	4.91			
			Cum	2	36.40	0.10	0.45	3.28			
		Deduction for triangular portion	Cum	2	36.40	0.08	-0.15	-0.82			
		B14(200X300)	Cum	2	3.50	0.20	0.15	0.21			
		near Gutter level Slab projection	Cum	2	4.10	1.06	0.15	1.30			
		Deduction for Slab									
		C4	Cum	2	0.30	0.45	-0.15	-0.04			
		C3	Cum	2	0.30	0.45	-0.15	-0.04			
		B13(300X600)	Cum	2	22.10	0.30	0.60	7.96			
		Gutter Beam Deduction	Cum	2	0.30	1.15	-0.15	-0.10			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Ground Floor									
		Lintel at entrance	Cum	1	6.40	0.20	0.20	0.26			
		Baby Pool	Cum								
		Base Slab	Cum	1	8.40	2.60	0.15	3.28			
		Side Walls	Cum	2	8.40	0.15	0.55	1.39			
			Cum	2	2.30	0.15	0.55	0.38			
		Deduction of Qty from									
		Base Slab	Cum	-1	5.20	2.70	0.15	-2.11			
		Side Walls	Cum	-2	5.20	0.15	0.57	-0.89			
			Cum	-2	2.40	0.15	0.57	-0.41			
							Total Executed Quantity	**1253.12**	**7500.00**	**9398362.50**	
							Tender Quantity	**1410.76**			
Item No. 09		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, incluidng attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specfiications									
		gutter-side walls	Sqm	4	30.60		0.40	48.96			
		Retaining wall-pool	Sqm	4	18.60		2.30	171.12			
		long wall	Sqm	4	10.30		0.90	37.08			
			Sqm	4	10.00		1.45	58.00			
			Sqm	4	10.30		2.00	82.40			
		Balancing tank	Sqm	6	4.10		3.20	78.72			
		long wall	Sqm	4	10.60		3.20	135.68			
		pool base	Sqm	1	98.40		0.45	44.28			
		Balancing tank base slab	Sqm	1	29.40		0.45	13.23			
		Footings									
		C1	Sqm	16	18.00		0.90	259.20			
		Building footings									
		staircase									
		C2	Sqm	2	15.40		0.70	21.56			
		C3	Sqm	1	13.20		0.70	9.24			
		C4	Sqm	1	10.80		0.60	6.48			
		balancing tank									
		C3	Sqm	2	13.20		0.70	18.48			
		C4	Sqm	2	10.80		0.60	12.96			
		Balancing tank	Sqm	4	4.10		1.00	16.40			
		long wall	Sqm	4	10.60		1.00	42.40			
		Baby Pool									
		Base Slab	Sqm	1	15.8		0.15	2.37			
		Side Walls	Sqm	4	5.2		0.57	11.86			
			Sqm	4	2.4		0.57	5.47			
		Ground Floor									
		Baby Pool									
		Base Slab	Sqm	1	21.40		0.15	3.21			
		Side Walls	Sqm	4	8.40		0.57	19.15			
			Sqm	4	2.40		0.57	5.47			
		Deduction from Previous bill Qty									
		Base Slab	Sqm	-1	15.80		0.15	-2.37			
		Side Walls	Sqm	-4	5.20		0.57	-11.86			
			Sqm	-4	2.40		0.57	-5.47			
							Total Executed Quantity	**1084.02**			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							Tender Quantity	816.72		423387.65	
							Quantity upto125%	1020.90	414.72	20375.69	
							Quantity above 125%	63.13	322.74		
Item No. 10		Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications of size 30 x 30 cms 6mm thick									
		Pool bottom	Sqm	1	30.00	18.00		540.00			
		pool side walls	Sqm	2	10.00		2.00	40.00			
			Sqm	2	10.00		1.00	20.00			
			Sqm	Triangular area=0.5*10*2							
			Sqm	2	10.00		0.90	18.00			
			Sqm	1	18.00		0.90	16.20			
			Sqm	1	18.00		2.00	36.00			
		Baby Pool									
		Base Slab	Sqm	1	4.90	2.40		11.76			
		Side Walls	Sqm	2	4.90		0.57	5.59			
			Sqm	1	2.40		0.57	1.37			
		Deduction									
			Sqm	1	0.30		-0.30	-0.09			
		Changing Room									
		Ladies Changing Room									
		Bath Room	Sqm	3	1.20	1.20		4.32			
		WC	Sqm	3	1.20	1.20		4.32			
			Sqm	1	3.90	1.00		3.90			
			Sqm	1	6.60	3.60		23.76			
		Gents Changing Room									
		Bath room	Sqm	3	1.20	1.20		4.32			
		WC	Sqm	2	1.20	1.20		2.88			
			Sqm	1	3.50	5.00		17.50			
			Sqm	1	3.90	1.00		3.90			
			Sqm	1	1.80	1.30		2.34			
		Ground Floor									
		Steps Towards Baby									
			Sqm	2	0.36		0.19	0.14			
			Sqm	2	0.33		0.38	0.25			
			Sqm	2	0.35		0.56	0.39			
		Swimming Pool Grating									
		Sides	Sqm	4	29.80		0.30	35.76			
		Bottom	Sqm	2	29.80	0.30		17.88			
		Front and Back	Sqm	4	0.30		0.30	0.36			
							Total Executed Quantity	810.84	1230.08	997402.50	
							Tender Quantity	1215.00			
Item No. 11		Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.									
		Ground Floor to 1st Floor									
		1st Flight(LHS)	Sqm	1	4.35		0.20	0.87			
		1st Flight(RHS)	Sqm	1	4.02		0.90	3.62			
		Landing	Sqm	1	1.75		0.90	1.58			
		2nd Flight									
		LHS	Sqm	1	5.25		0.90	4.73			
		RHS	Sqm	1	5.35		0.20	1.07			
		2nd Floor to Terrace Floor									
		5th Flight(LHS)	Sqm	1	5.35		0.92	4.92			
		RHS	Sqm	1	5.00		0.92	4.60			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
		Landing	Sqm	1	1.70		0.92	1.56			
		6th Flight(LHS)	Sqm	1	5.20		0.92	4.78			
		RHS	Sqm	1	4.50		0.20	0.90			
		Terrace Floor									
			Sqm	1	14.78		0.92	13.60			
							Total Executed Quantity	**42.23**			
							Tender Quantity	**33.00**			
							Quantity upto125%	**41.25**	**6638.76**	**273849.00**	
							Quantity Above 125%	**0.98**	**6632.08**	**6470.00**	
Item No. 12		Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as eper spec ifications and Extra for providing and mixing Waterproofing compound in cement plaster work at one kg per bag or in the proportion recomended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.									
		Pool Plastering									
		Pool bottom	Sqm	1	30.00	18.00		540.00			
		pool side walls	Sqm	2	10.00		2.00	40.00			
			Sqm	2	10.00		1.00	20.00			
			Sqm		Triangular area=0.5*10*2						
			Sqm	2	10.00		0.90				
			Sqm	1	18.00		0.90	16.20			
			Sqm	1	18.00		2.00	36.00			
		Balancing Tank									
		inside Plastering									
		Retaining wall - Balancing tank	Sqm	2	6.30		4.20	52.92			
		Balancing tank wall	Sqm	1	3.50		4.20	14.70			
		Balancing tank Cross wall	Sqm	1	3.50		2.30	8.05			
			Sqm	1	3.50		2.00	7.00			
		Balancing Tank Bottom	Sqm	1	6.30	3.50		22.05			
		pump pit	Sqm	2	3.50		4.50	31.50			
			Sqm	1	3.50		4.50	15.75			
		Pump pit Bottom	Sqm	1	3.50	3.50		12.25			
		Filtration unit Roof	Sqm	1	6.70	3.50		23.45			
		Filtration unit Base tank	Sqm	1	6.70	3.50		23.45			
		Balancing tank roof	Sqm	1	10.00	3.50		35.00			
		Deduction	Sqm								
		Rolling Shutter	Sqm	1	3.00	-3.00		-9.00			
		V	Sqm	5X0.5	0.75	-0.6		-1.13			
		Balacing Tank outside plastering									
			Sqm	1	10.60		3.35	35.51			
			Sqm	1	10.60		2.75	29.15			
			Sqm	2	4.10		2.75	22.55			
		Deduction									
		Rolling Shutter	Sqm	1	3.10	-3.00		-9.30			
		V	Sqm	5	0.75	-0.60		-2.25			
		Baby Pool									
		Inside plastering									
		Base Slab	Sqm	1	4.90	2.40		11.76			
		Side Walls	Sqm	2	4.90		0.57	5.59			
			Sqm	2	2.40		0.57	2.74			
		Deduction									
			Sqm	1	0.30		-0.30	-0.09			
		Outside Plastering	Sqm	1	4.90		0.72	3.53			
			Sqm	1	2.40		0.72	1.73			
		Deduction									

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
			Sqm	1	0.30		-0.30	-0.09			
							Total Executed Quantity	**989.01**			
							Tender Quantity	**984.00**			
							Quantity upto 125%	**989.01**	**293.76**	**290532.46**	
Item No.13		Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500									
		Footing	tonne	From calculation sheet				**18.83**			
		Columns	tonne	From calculation sheet				**8.55**			
		Plinth beam	tonne	From calculation sheet				**1.91**			
		Retaining Wall	tonne	From calculation sheet				**20.90**			
		Slab	tonne	From calculation sheet				**36.21**			
		Columns	tonne	From calculation sheet				**11.99**			
		Beams	tonne	From calculation sheet				**45.26**			
		Roof Slab	tonne	From calculation sheet				**17.14**			
		Staircase	tonne	From calculation sheet				**0.76**			
		Balancing tank	tonne	From calculation sheet				**7.92**			
		Above SSM Changing Room	tonne	From calculation sheet				**0.11**			
		Changing Room Slab	tonne	From calculation sheet				0.98			
		Baby Pool	tonne	From calculation sheet				0.37			
		Plinth Beam for Compound	tonne	From calculation sheet				2.14			
		Lintel For Compound wall	tonne	From calculation sheet				3.99			
		Column For Compound Wall	tonne	From calculation sheet				0.19			
		Second Floor Columns	tonne	From calculation sheet				3.35			
		Second Floor Roof Slab	tonne	From calculation sheet				1.77			
		Second Floor Roof Beam	tonne	From calculation sheet				9.23			
		Gutter Beam	tonne	From calculation sheet				4.95			
		Lintel -Ground floor	tonne	From calculation sheet				0.29			
							Total Executed Quantity	**196.83**			
							Tender Quantity	**155.18**			
							Quantity upto125%	**193.98**	**76329.00**	**14806277.30**	
							Quantity Above 125%	**2.85**	**66758.13**	**190577.57**	
Item No.14		Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing cpmplete as per specification.									
		Ground Floor									
		Around Swimming Pool									
0.00	30.00	**East Side**	Sqm	1	30.00	3.45		103.50			
30.00	35.07		Sqm	1	5.07	3.45		17.49			
		Along Grating	Sqm	1	2.54	0.36		0.91			
			Sqm	1	2.65	0.45		1.19			
		North Side	Sqm	1	18.58	2.56		47.56			
		Sides	Sqm	1	2.74		0.28	0.77			
			Sqm	1	2.70		0.18	0.49			
0.00	15.00	**West Side**	Sqm	1	15.00	4.03		60.45			
15.00	26.70		Sqm	1	11.70	4.65		54.35			
26.70	35.10		Sqm	1	8.40	2.30		19.32			
		Along Grating	Sqm	1	2.70	0.42		1.13			
			Sqm	1	2.30	0.43		0.99			
		Skirting	Sqm	1	4.07		0.12	0.49			
		South Side	Sqm	1	18.45	2.39		44.10			
		Sides	Sqm	1	2.70		0.26	0.70			
			Sqm	1	2.57		0.24	0.62			
		Deduction									
		Columns	Sqm	-14	0.70	0.52		-5.10			
		Chambers	Sqm	-4	1.00	0.50		-2.00			
		Baby pool side	Sqm	-1	4.20	0.22		-0.92			
		Steps	Sqm	-1	0.94	0.94		-0.88			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		South Side MS Door	Sqm	-1	1.80	1.52		-2.74			
								342.42	**1171.80**	**401247.00**	
							Total Executed Quantity	**842.00**			
							Tender Quantity				
Item No.15		Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size 40x20x20cms confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.									
		Ground Floor									
		Compound Wall									
		Westernside									
			Sqm	1	30.00		3.40	102.00			
			Sqm	1	5.50		3.38	18.56			
			Sqm	6	0.20		3.40	4.08			
		Pillar	Sqm	1	1.50		2.70	4.05			
		near ticket Counter	Sqm								
		Northenside	Sqm	1	1.46		2.70	3.94			
		near ticket Counter	Sqm								
		Easternside									
			Sqm	1	5.20		2.47	12.84			
			Sqm	1	12.20		2.75	33.55			
			Sqm	1	11.20		3.10	34.72			
			Sqm	1	12.10		3.30	39.93			
		Deduction									
		D	Sqm	1	0.90		-2.00	-1.80			
		Column For Compound Wall									
		Easternside	Sqm								
			Sqm	2	0.30		-2.47	-1.48			
			Sqm	4	0.30		-2.75	-3.30			
			Sqm	3	0.30		-3.10	-2.79			
			Sqm	4	0.30		-3.30	-3.96			
		Lintel For Compound wall									
		Westernside									
			Sqm	2	30.00		-0.30	-18.00			
			Sqm	2	5.50		-0.30	-3.30			
			Sqm	2	1.50		-0.30	-0.90			
		Easternside	Sqm								
			Sqm	2	5.20		-0.30	-3.12			
			Sqm	2	12.20		-0.30	-7.32			
			Sqm	2	11.20		-0.30	-6.72			
			Sqm	2	12.10		-0.30	-7.26			
		Changing Room									
		RoadSide	Sqm	1	30.80		3.55	109.34			
		Ladies Changing Room	Sqm	2	3.80		3.55	26.98			
			Sqm	1	9.00		3.55	31.95			
			Sqm	1	1.35		2.40	3.24			
			Sqm	1	1.37		2.40	3.29			
		Gents Changing Room	Sqm	2	3.70		3.55	26.27			
			Sqm	1	9.10		3.55	32.31			
			Sqm	1	1.35		2.40	3.24			
			Sqm	1	1.33		2.40	3.19			
		Deduction	Sqm								
		ED	Sqm	1	0.90		-2.00	-1.80			
		D1	Sqm	2	0.90		-2.10	-3.78			
		V	Sqm	17	0.75		-0.60	-7.65			
		Column	Sqm	2	0.60		-3.55	-4.26			
		Ticket Counter	Sqm	1	3.45		3.70	12.77			
			Sqm	1	6.00		3.00	18.00			
			Sqm	1	6.00		4.35	26.10			
			Sqm	1	1.90		4.35	8.27			
			Sqm	1	4.85		2.25	10.91			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
			Sqm	1	4.85		0.95	4.61			
		Deduction		Triangle portion (4.85*1.9*0.5)							
		W	sqm	1	0.90		-0.90	-0.81			
		Through Window	sqm	2	2.35		-1.30	-6.11			
		D1	Sqm	1	0.90		-2.25	-2.03			
		open	Sqm	1	1.70		-2.25	-3.83			
		Second Floor									
		Wall upto 4.5m LVL									
		Northenside Wall	Sqm	1	16.05		3.90	62.60			
		Southernside Wall	Sqm	1	22.70		3.20	72.64			
		Middle portion wall	Sqm	1	22.10		3.90	86.19			
		office Room	Sqm	1	3.70		4.35	16.10			
				1	3.70		4.20	15.54			
		Ladies Changing Room	Sqm	1	3.70		4.35	16.10			
			Sqm	1	3.70		3.90	14.43			
		Easternside and Westernside	Sqm	2	35.90		4.35	312.33			
		Westernside near Staircase	Sqm	1	3.45		2.20	7.59			
		Deduction	Sqm								
		W	Sqm	4	1.50		-2.07	-12.42			
		W1	Sqm	3	1.20		-1.20	-4.32			
		V	Sqm	4	0.75		-0.60	-1.80			
		D	Sqm	1	1.80		-2.10	-3.78			
		D1	Sqm	3	0.90		-2.10	-5.67			
		Through Lintel									
		Northenside outer Wall	Sqm	1	16.05		-0.30	-4.82			
		Middle portion wall	Sqm	1	16.05		-0.30	-4.82			
		Offiice	Sqm	2	3.70		-0.30	-2.22			
		Ladies Changing Room	Sqm	2	3.70		-0.30	-2.22			
		Wall Above 4.5m LVL									
		Easternside and Westernside	Sqm	2	32.30		2.65	171.19			
		Parapet Wall Near Drain in Second Floor									
		Eastern Side									
0	30		Sqm	1	30.00		1.20	36.00			
30	36.2		Sqm	1	6.20		1.20	7.44			
		Western Side									
0	30		Sqm	1	30.00		1.20	36.00			
30	36.2		Sqm	1	6.20		1.20	7.44			
		Ground Floor									
		Entrance	Sqm	1	6.31		4.27	26.94			
		Deduction-Main door	Sqm	-2	1.82		2.10	-7.64			
		Filtration Room above	Sqm	1	0.42		2.00	0.84			
		Steps Towards Swimming pool	Sqm	1	0.94		0.90	0.85			
			Sqm	1	0.94		0.60	0.56			
			Sqm	1	0.94		0.30	0.28			
		Entrance Near Doors									
		Outside(Stage)	Sqm	1	5.65		0.20	1.13			
			Sqm	2	0.74		0.20	0.30			
		Ticket Counter									
		Stage	Sqm	1	1.49		0.20	0.30			
			Sqm	2	0.49		0.20	0.20			
							Total Executed Quantity	1327.19	1011.96	1343061.37	
							Tender Quantity	2504.92			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
Item No. 16		Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications									
		SSM below Ground									
		Ladies changing Room	cum	1	9.00	0.90	1.55	12.55			
			cum	2	3.50	0.90	1.55	9.76			
		Gents changing Room	cum	1	9.40	0.90	1.55	13.11			
			cum	2	3.50	0.90	1.55	9.76			
		Road Side	cum	1	30.80	0.90	1.55	42.96			
		Entry Lounge	cum	1	6.60	0.90	1.55	9.20			
		SSM for compound wall									
		Easternside compound Wall	cum	1	44.40	0.90	0.70	27.97			
		SSM above Ground									
		Ladies changing Room	cum	1	9.00	0.45	0.60	2.43			
			cum	2	3.50	0.45	0.60	1.89			
		Gents changing Room	cum	1	9.40	0.45	0.60	2.53			
			cum	2	3.50	0.45	0.60	1.89			
		Road Side	cum	1	30.80	0.45	0.60	8.31			
		Entry Lounge	cum	1	6.60	0.45	0.60	1.78			
		SSM in entry lounge Steps	cum	2	1.20		0.56	1.34			
				triangular area=0.5*1.2*0.75=0.56							
		SSM for compound wall									
		Easternside compound Wall	cum	1	44.40	0.45	0.30	5.99			
		SSM Below Ground									
		SSM for Compound Wall									
		Westernside	Cum	1	37.25	0.90	0.70	23.47			
		Northenside	Cum	1	1.46	0.90	0.70	0.92			
		SSM Above Ground									
		SSM for Compound Wall									
		Northenside	Cum	1	1.46	0.45	0.90	0.59			
		Below Entrance Doors									
			cum	1	6.30	0.45	0.45	1.28			
								Total Executed Quantity	**177.73**		
								Tender Quantity	**76.68**		
								Quantity upto 125%	**95.85**	**4359.96**	**417902.17**
								Quantity Above 125%	**81.88**	**4359.96**	**357012.49**
Item No.17		Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.									
		Columns									
		C1	Sqm	16	2.10		4.10	137.76			
		staircase									
		C2	Sqm	2	1.50		1.60	4.80			
		C3	Sqm	1	1.50		1.60	2.40			
		C4	Sqm	1	1.50		1.70	2.55			
		Balancing tank									
		C3	Sqm	2	1.50		3.45	10.35			
		C4	Sqm	2	1.50		3.55	10.65			
		Above ground level									
		C1	Sqm	16	2.10		1.20	40.32			
		staircase									
		C2	Sqm	2	1.50		1.20	3.60			
		C3	Sqm	1	1.50		1.20	1.80			
		C4	Sqm	1	1.50		1.20	1.80			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Columns									
		C1									
		Along Grid B	Sqm	8	2.10		3.25	54.60			
		Along Grid E	Sqm	8	2.10		3.25	54.60			
		C2									
		Along Grid C	Sqm	2	1.50		3.15	9.45			
		C3									
		Along Grid D	Sqm	2	1.50		3.15	9.45			
		Grid A-9	Sqm	1	1.50		3.15	4.73			
		C4									
		Along Grid F	Sqm	2	1.50		3.15	9.45			
		Grid A-10	Sqm	1	1.50		3.15	4.73			
		Column For Compound Wall									
		Easternside									
			Sqm	2	1.50		3.07	9.21			
			Sqm	4	1.50		3.86	23.16			
			Sqm	3	1.50		3.84	17.28			
			Sqm	4	1.50		3.80	22.80			
							Total Executed Quantity	**435.48**	**395.28**	**172136.53**	
							Tender Quantity	**928.00**			
Item No 18		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.									
		Building plinth beam									
		Along grid B-B	Sqm	2	31.50		0.30	18.90			
		Along grid E-E	Sqm	2	31.50		0.30	18.90			
		Along grid A-A & C-C	Sqm	4	3.80		0.30	4.56			
		Along grid 10-10 & 9-9	Sqm	4	6.50		0.45	11.70			
		Between grid 8-9	Sqm	4	4.70		0.30	5.64			
		Plinth Beam for Compound									
		Westernside									
			Sqm	2	30.00		0.30	18.00			
			Sqm	2	5.50		0.30	3.30			
			Sqm	2	1.50		0.30	0.90			
		Easternside									
			Sqm	4	5.20		0.30	6.24			
			Sqm	4	12.20		0.30	14.64			
			Sqm	4	11.20		0.30	13.44			
			Sqm	4	12.10		0.30	14.52			
		Lintel For Compound wall									
		Westernside									
			Sqm	4	30.00		0.30	36.00			
			Sqm	4	5.50		0.30	6.60			
			Sqm	4	1.50		0.30	1.80			
		Easternside									
			Sqm	4	5.20		0.30	6.24			
			Sqm	4	12.20		0.30	14.64			
			Sqm	4	11.20		0.30	13.44			
			Sqm	4	12.10		0.30	14.52			
		Deduction									
		D	Sqm	4	0.90		-0.30	-1.08			
		Lintel									
		Ladies Changing Room	Sqm	4	4.00		0.30	4.80			
			Sqm	2	9.40		0.30	5.64			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Gents Changing Room	Sqm	4	3.90		0.30	4.68			
			Sqm	2	9.50		0.30	5.70			
		RoadSide	Sqm	2	30.80		0.30	18.48			
		Ground Floor									
		Lintel	Sqm	2	6.40		0.20	2.56			
							Total Executed Quantity	**264.76**	**365.04**	**96647.99**	
							Tender Quantity	**391.20**			
Item No.19		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50m from Ground level									
		Balancing tank roof	Sqm	1	6.86	4.10		28.13			
		Changing Room Roof Slab									
		Bottom Slab									
		Ladies Changing Room	Sqm	1	9.40	4.00		37.60			
		Gents Changing Room	Sqm	1	9.50	3.90		37.05			
		Slab Edge									
		Ladies Changing Room									
			Sqm	1	26.80		0.15	4.02			
		Gents Changing Room	Sqm	1	26.80		0.15	4.02			
							Total Executed Quantity	**110.82**	**961.02**	**106496.39**	
							Tender Quantity	**2395.60**			
Item No.20		Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For **Outside Plastering**									
		For Compound Wall									
		Westernside									
			Sqm	2	30.00		3.40	204.00			
			Sqm	2	5.50		3.38	37.13			
		Pillar	Sqm	12	0.20		3.40	8.16			
		near ticket Counter	Sqm	2	1.50		2.70	8.10			
		Northenside									
		near ticket Counter	Sqm	2	1.46		2.70	7.88			
		Compound Top									
		Westernside									
			Sqm	1	30.00	0.20		6.00			
			Sqm	1	5.50	0.20		1.10			
		Pillar	Sqm	6	0.20	0.20		0.24			
			Sqm	1	1.50	0.20		0.30			
		Northenside									
			Sqm	1	1.46	0.20		0.29			
		Easternside									
			Sqm	2	5.20		2.47	25.69			
			Sqm	2	12.20		2.75	67.10			
			Sqm	2	11.20		3.10	69.44			
			Sqm	2	12.10		3.30	79.86			
		Column For Compound Wall									
		Easternside									
		Column projection	Sqm	4	0.25		3.07	3.07			
			Sqm	8	0.25		3.86	7.72			
			Sqm	6	0.25		3.84	5.76			
			Sqm	8	0.25		3.80	7.60			
		Deduction									
		D	Sqm	2	0.90		-2.00	-3.60			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Compound Top									
		Easternside									
			Sqm	1	5.20	0.20		1.04			
			Sqm	1	12.20	0.20		2.44			
			Sqm	1	11.20	0.20		2.24			
			Sqm	1	12.10	0.20		2.42			
		Column For Compound									
		Easternside									
			Sqm	2	0.30	0.25		0.15			
			Sqm	4	0.30	0.25		0.30			
			Sqm	3	0.30	0.25		0.23			
			Sqm	4	0.30	0.25		0.30			
		Deduction									
		D	Sqm	1	0.90	-0.20		-0.18			
		Changing Room									
		RoadSide	Sqm	1	30.80		4.30	132.44			
		Ladies Changing Room	Sqm	1	3.80		4.30	16.34			
			Sqm	1	9.25		4.35	40.24			
		Gents Changing Room	Sqm	1	3.70		4.30	15.91			
			Sqm	1	4.05		4.30	17.42			
			Sqm	1	4.30		4.00	17.20			
		Deduction									
		ED	Sqm	1	0.90		-2.00	-1.80			
		D1	Sqm	2	0.90		-2.10	-3.78			
		V	Sqm	17	0.75		-0.60	-7.65			
		near Ticket counter									
			Sqm	1	6.00		3.60	21.60			
			Sqm	1	4.10		4.30	17.63			
			Sqm	1	6.95		4.80	33.36			
			Sqm	1	10.95		0.90	9.86			
		Deduction									
		W	sqm	1	0.90		-0.90	-0.81			
		Through Window	sqm	2	2.35		-1.30	-6.11			
		D1	Sqm	1	0.90		-2.25	-2.03			
		open	Sqm	1	1.70		-2.25	-3.83			
		Second Floor									
		Wall upto 4.5m LVL									
		Northenside Wall	Sqm	1	16.95		4.35	73.73			
		Southernside Wall	Sqm	1	23.90		4.35	103.97			
		Easternside and Westernside	Sqm	2	35.90		4.35	312.33			
		Easternside near Ladies Toilet	Sqm	1	4.10		4.35	17.84			
		Westernside near Staircase	Sqm	1	4.10		2.20	9.02			
		Deduction									
		W	Sqm	4	1.50		-2.07	-12.42			
		W1	Sqm	3	1.20		-1.20	-4.32			
		V	Sqm	4	0.75		-0.60	-1.80			
		Wall Above 4.5m LVL									
		Easternside and Westernside	Sqm	2	35.90		3.10	222.58			
		Parapet Wall Near Drain in Second Floor									
		Eastern Side									
0	30		Sqm	2	30.00		1.20	72.00			
30	36.2		Sqm	2	6.20		1.20	14.88			
		Wall Top									
0	30		Sqm	1	30.00		0.20	6.00			
30	36.2		Sqm	1	6.20		0.20	1.24			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Western Side									
0	30										
30	36.2		Sqm	2	30.00		1.20	72.00			
			Sqm	2	6.20		1.20	14.88			
		Wall Top									
0	30										
30	36.2		Sqm	1	30.00		0.20	6.00			
			Sqm	1	6.20		0.20	1.24			
		Ground Floor									
		Entrance	Sqm	1	6.31		4.27	26.94			
		Deduction-Main door	Sqm	-2	1.82		2.10	-7.64			
		Filtration Room above	Sqm	1	0.42		2.00	0.84			
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		South Side Wall	Sqm	1	4.57		0.63	2.88			
			Sqm	1	10.21		0.63	6.43			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
		West Side Wall	Sqm	1	1.90		1.00	1.90			
							Total Executed Quantity	**1800.71**	**277.56**	**499803.71**	
							Tender Quantity	**3459.46**			
tem No.21		Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications **Internal wall platering**									
		Ladies Changing Room	Sqm	2	3.60		0.71	5.11			
			Sqm	2	9.00		0.71	12.78			
		Bath	Sqm	3	4.80		0.71	10.22			
		WC	Sqm	3	4.80		0.71	10.22			
		Gents Changing Room	Sqm	2	3.50		0.71	4.97			
			Sqm	2	9.10		0.71	12.92			
		Bath	Sqm	3	4.80		0.71	10.22			
		WC	Sqm	2	4.80		0.71	6.82			
		near Urinals									
			Sqm	1	1.16		0.71	0.82			
		Deduction									
		V	Sqm	17X0.5	0.75		-0.60	-3.83			
		Ticket Counter	Sqm	2	1.90		4.80	18.24			
			Sqm	1	4.85		2.25	10.91			
			Sqm	1	4.85		1.25	6.06			
			Sqm	1	3.60		0.90	3.24			
			Sqm	Triangular area=0.5*3.6*1.8							
				1	1.45		1.50	2.18			
			Sqm	1	3.45		4.80	16.56			
		Deduction									
		W	sqm	1X0.5	0.90		-0.90	-0.41			
		Through Window	sqm	2X0.5	2.35		-1.30	-3.06			
		D1	Sqm	1X0.5	0.90		-2.25	-1.01			
		open	Sqm	1X0.5	1.70		-2.25	-1.91			
		Second Floor									
		Wall upto 4.5m LVL									
		Southernside Wall	Sqm	1	23.55		4.35	102.44			
		Easternside and Westernside Wall	Sqm	2	35.50		4.35	308.85			
		middle Portion Wall	Sqm	1	23.55		4.35	102.44			
		Lobby	Sqm	1	3.70		4.35	16.10			
			Sqm	1	12.49		4.35	54.33			
			Sqm	1	5.80		4.35	25.23			
		Westernside near Staircase	Sqm	1	3.70		2.20	8.14			
		Office	Sqm	2	3.70		4.35	32.19			
		Gents Changing Room	Sqm	2	3.70		2.25	16.65			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

ainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
om	To				(m)	(m)	(m)		Rs	Rs	
		Ladies Changing Room	Sqm	2	3.30		2.25	14.85			
			Sqm	2	3.70		2.25	16.65			
			Sqm	2	3.30		2.25	14.85			
		Column Plastering									
			Sqm	14	2.10		4.05	119.07			
			Sqm	8	0.10		3.75	3.00			
		Deduction									
		W	Sqm	4X0.5	1.50		-2.07	-6.21			
		W1	Sqm	3X0.5	1.20		-1.20	-2.16			
		V	Sqm	4X0.5	0.75		-0.60	-0.90			
		D	Sqm	2X0.5	1.80		-2.10	-3.78			
		D1	Sqm	4X0.5	0.90		-2.10	-3.78			
		Wall Above 4.5m LVL									
		Easternside and Westernside	Sqm	2	35.70		3.10	221.34			
		Column Plastering									
			Sqm	28	0.40		3.10	34.72			
		Ground Floor									
		Entrance	Sqm	1	6.31		4.27	26.94			
		Deduction-Main door	Sqm	-2	1.82		2.10	-7.64			
		Filtration Room above	Sqm	1	0.42		2.00	0.84			
		Steps towards swimming pool	Sqm	1	0.94		0.90	0.85			
			Sqm	1	0.94		0.60	0.56			
			Sqm	1	0.94		0.30	0.28			
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		South Side Wall	Sqm	1	4.57		0.63	2.88			
			Sqm	1	10.21		0.63	6.43			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
		West Side Wall	Sqm	1	1.90		1.00	1.90			
							Total Executed Quantity	1247.57	306.72	382654.73	
							Tender Quantity	4327.86			
em No.22		Providing and laying Hassan Green Granite flooring for Staircase, treads and rises using pre polished 20mm thick water cut green Granite Slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 lline grooves not more than 2mm wide for antiskidding, curing etc., complete.									
		Item Not Operated									
em No.23		Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick									
		Second Floor									
		Ladies Changing Room									
		WC	Sqm	1	1.20	1.20		1.44			
			Sqm	1	3.30	2.15		7.10			
			Sqm	1	1.88	1.35		2.54			
		Gents Changing Room									
		WC	Sqm	1	1.20	1.20		1.44			
			Sqm	1	3.30	2.15		7.10			
			Sqm	1	1.88	1.35		2.54			
		Ground Floor									
		Baby Pool									
		Base Slab	Sqm	1	8.10	2.30		18.63			
		Side Walls	Sqm	2	8.10		0.57	9.23			
			Sqm	1	2.30		0.57	1.31			
		Deduction of Qty from Previous bill									
		Base Slab	Sqm	-1	4.90	2.40		-11.76			
		Side Walls	Sqm	-2	4.90		0.57	-5.59			
			Sqm	-1	2.40		0.57	-1.37			
							Total Executed Quantity	32.61	1270.08	41413.50	
							Tender Quantity	180.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

ainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
om	To										
tem No 24		Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)									
		Parapet Wall Near Drain in Second Floor									
		Eastern Side									
)	30		Sqm	2	30.00		1.20	72.00			
0	36.2		Sqm	2	6.20		1.20	14.88			
		Wall Top									
)	30		Sqm	1	30.00		0.20	6.00			
0	36.2		Sqm	1	6.20		0.20	1.24			
		Western Side									
)	30		Sqm	2	30.00		1.20	72.00			
0	36.2		Sqm	2	6.20		1.20	14.88			
		Wall Top									
)	30		Sqm	1	30.00		0.20	6.00			
0	36.2		Sqm	1	6.20		0.20	1.24			
		Ground Floor									
		Ticket Counter beside	Sqm	1	1.43		2.40	3.43			
			Sqm	1	1.50		2.40	3.60			
			Sqm	1	3.90		3.76	14.66			
			Sqm	1	23.86		5.07	120.97			
		North Side(Front Side)	Sqm								
		Deduction									
		Doors	Sqm	-2	1.80		2.10	-7.56			
		window	Sqm	-1	0.90	0.90		-0.81			
		ventilator	Sqm	-3	0.60		0.60	-1.08			
		Alumunium Louvers	Sqm	-1	3.47		2.02	-7.01			
			Sqm	-1	5.85		2.02	-11.82			
		Stair case	Sqm	-1	5.92		1.65	-9.77			
		filtration above									
		Alumunium Louvers	Sqm	-1	3.47		2.02	-7.01			
			Sqm	-1	5.85		2.02	-11.82			
		Filtration tank near transformer	Sqm	1	3.20		2.63	8.42			
		Compound Wall									
		West Side	Sqm	1	41.50		3.00	124.50			
		near Transformer	Sqm	1	4.41		2.63	11.60			
		Gents Change room									
		East Side	Sqm	1	4.00		4.65	18.60			
		Gents & Ladies back Side	Sqm	1	29.87		4.32	129.04			
		Deduction									
		Doors	Sqm	-2	0.90		2.00	-3.60			
		Ventilators	Sqm	-6	0.60		0.60	-2.16			
		Second Floor									
		Wall upto 4.5m LVL									
		Northenside Wall	Sqm	1	16.95		4.35	73.73			
		Southernside Wall	Sqm	1	23.90		4.35	103.97			
		Easternside and Westernside	Sqm	2	35.90		4.35	312.33			
		Easternside near Ladies Toilet	Sqm	1	4.10		4.35	17.84			
		Westernside near Staircase	Sqm	1	4.10		2.20	9.02			
		Deduction									
		W	Sqm	4	1.50		-2.07	-12.42			
		W1	Sqm	3	1.20		-1.20	-4.32			
		V	Sqm	4	0.75		-0.60	-1.80			
		Wall Above 4.5m LVL									
		Easternside and Westernside	Sqm	2	35.90		3.10	222.58			
		Landing above	Sqm	1	3.40		2.20	7.48			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO:87

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
							Total Executed Quantity	1308.26	160.00	209321.79	
							Schedule B quantity	3459.46			
		Item No 25 Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost of labour and scaffolding etc complete as per the specifications									
		Ground Floor									
		ceiling	Sqm	1	23.92	39.70		949.62			
		Deduction	Sqm								
		Colum									
		C1	Sqm	16	0.45	-0.60		-4.32			
		C2	Sqm	2	0.30	-0.45		-0.27			
			Sqm	3	0.30	-0.45		-0.41			
			Sqm	3	0.30	-0.45		-0.41			
		Beam Plastering									
		B2(450 X 1300)	Sqm	15	23.90		1.15	412.28			
			Sqm	1	23.90		1.30	31.07			
		B4(300 X 300)	Sqm	28	4.05		0.15	17.01			
		B3(300 X600)	Sqm	16	4.05		0.45	29.16			
		B3(300X 600)	Sqm	2	35.90		0.60	43.08			
		Changing Room									
		Ladies Changing Room	Sqm	1	9.00	3.60		32.40			
		Gents Changing Room	Sqm	1	9.10	3.50		31.85			
		First Floor									
		ceiling	Sqm	1	23.92	39.70		949.62			
		Deduction									
		Column									
		C1	Sqm	16	0.45	-0.60		-4.32			
		C2	Sqm	2	0.30	-0.45		-0.27			
			Sqm	3	0.30	-0.45		-0.41			
			Sqm	3	0.30	-0.45		-0.41			
		Beam Plastering									
		B2(450 X 1300)	Sqm	14	23.90		1.15	384.79			
		B7(450X1400)	Sqm	1	23.90		1.15	27.49			
			Sqm	1	23.90		1.40	33.46			
		B4(300 X 300)	Sqm	28	4.05		0.15	17.01			
		B4(300 X600)	Sqm	16	4.05		0.45	29.16			
		B4(300X 600)	Sqm	2	35.90		0.60	43.08			
		Second Floor									
		ceiling									
		lobby	Sqm	1	6.00	3.70		22.20			
		office	Sqm	1	4.00	3.70		14.80			
		Gents Changing Room	Sqm	1	3.30	3.70		12.21			
		Ladies Changing Room	Sqm	1	3.30	3.70		12.21			
		Slab At 4.5 m lvl									
		Easternside and Westernside	Sqm	2	35.50	1.61		114.31			
		Beam plastering	Sqm	4	31.50		0.30	37.80			
		For Wall									
		Wall upto 4.5m LVL									
		Southernside Wall	Sqm	1	23.55		4.35	102.44			
		Easternside and Westernside Wall	Sqm	2	35.50		4.35	308.85			
		middle Portion Wall	Sqm	1	23.55		4.35	102.44			
		Lobby	Sqm	1	3.70		4.35	16.10			
			Sqm	1	12.49		4.35	54.33			
			Sqm	1	5.80		4.35	25.23			
			Sqm	1	3.70		2.20	8.14			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO:87

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Office	Sqm	2	3.70		4.35	32.19			
		Gents Changing Room	Sqm	2	3.70		2.25	16.65			
			Sqm	2	3.30		2.25	14.85			
		Ladies Changing Room	Sqm	2	3.70		2.25	16.65			
			Sqm	2	3.30		2.25	14.85			
		Deduction									
		W	Sqm	4X0.5	1.50		-2.07	-6.21			
		W1	Sqm	3X0.5	1.20		-1.20	-2.16			
		V	Sqm	4X0.5	0.75		-0.60	-0.45			
		D	Sqm	2X0.5	1.80		-2.10	-3.78			
		D1	Sqm	4X0.5	0.90		-2.10	-3.78			
		Groundfloor									
		Filtration and Balancing tank									
		North& South	Sqm	2	10.00		2.90	58.00			
		East& West	Sqm	2	3.50		2.90	20.30			
		Ceiling	Sqm	1	10.00	3.50		35.00			
		steps side	Sqm	1	3.20		2.27	7.26			
		Swimming pool side	Sqm	1	10.30		3.28	33.78			
		Lobby									
		North Side	Sqm	1	6.31		4.71	29.72			
		Steps Beside	Sqm	2	1.00		0.80	1.60			
		top face	Sqm	1	1.00	0.18		0.18			
		South Side	Sqm	1	4.25		0.80	3.40			
		top face	Sqm	1	4.25	0.18		0.77			
		Towards Swimming pool									
		Right Side	Sqm	1	4.45		1.70	7.57			
		Ticket counter south	Sqm	1	6.96		5.62	39.12			
		Near Chamber	Sqm	1	1.43		3.40	4.86			
		Deduction									
		Ventilators	Sqm	-21	0.60		0.60	-7.56			
		Rolling Shutter	Sqm	-1	3.00		2.98	-8.94			
		Bathroom Door	Sqm	-2	0.75		2.00	-3.00			
		Internal plastering for columns									
			Sqm	14	2.10		2.00	58.80			
		Filtration tank above	Sqm	4	1.50		2.55	15.30			
		Staircase-Groundfloor									
		Flight-Steps	Sqm	32	0.02			0.72			
				Area of triangular portion=0.0225							
		Waist slab	Sqm	1	5.07		0.20	1.01			
		Landing-bottom face	Sqm	1	3.50		1.60	5.60			
		Flight-Bottom faces	Sqm	2	5.37		1.60	17.17			
		Staircase beam	Sqm	2	3.50		0.40	2.80			
		Landing-above wall	Sqm	1	3.40		1.19	4.05			
		Second Floor									
		Internal plastering for columns									
			Sqm	16	2.10		7.00	235.20			
			Sqm	8	1.50		7.00	84.00			
		Terrace Floor									
		North side wall	Sqm	1	5.80		1.00	5.80			
			Sqm	1	10.21		1.00	10.21			
		South Side Wall	Sqm	1	4.57		0.63	2.88			
			Sqm	1	10.21		0.63	6.43			
		East Side Wall	Sqm	1	3.42		1.00	3.42			
		West Side Wall	Sqm	1	1.90		1.00	1.90			
							Total Executed Quantity	**4607.50**	**60.48**	**278661.41**	
							Tender Quantity	**5706.42**			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No 26		Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge.with primer									
		Internal painting									
		Groundfloor									
		Filtration and Balancing tank									
		North&South	Sqm	2	10.00		2.90	58.00			
		East&West	Sqm	2	3.50		2.90	20.30			
		Cealing	Sqm	1	10.00	3.50		35.00			
		steps side	Sqm	1	3.20		2.27	7.26			
		Swimming pool side	Sqm	1	10.30		3.28	33.78			
		Lobby		1	6.31		4.71	29.72			
		North Side	Sqm	2	1.00		0.80	1.60			
		Steps Beside	Sqm	1	1.00	0.18		0.18			
		top face	Sqm	1	4.25		0.80	3.40			
		South Side	Sqm	1	4.25	0.18		0.77			
		top face	Sqm								
		Towards Swimming pool		1	4.45		1.70	7.57			
		Right Side	Sqm	1	6.96		5.62	39.12			
		Ticket counter south	Sqm	1	1.43		3.40	4.86			
		Near Chamber	Sqm								
		Deduction									
		Ventilators	Sqm	-21	0.60		0.60	-7.56			
		Rolling Shutter	Sqm	-1	3.00		2.98	-8.94			
		Bathroom Door	Sqm	-2	0.75		2.00	-3.00			
		Internal plastering for columns									
			Sqm	14	2.10		2.00	58.80			
		Filtration tank above	Sqm	4	1.50		2.55	15.30			
		Staircase-Groundfloor									
		Flight-Steps	Sqm	32	0.02			0.72			
				Area of triangular portion=0.0225							
		Waist slab	Sqm	1	5.07		0.20	1.01			
		Landing-bottom face	Sqm	1	3.50		1.60	5.60			
		Flight-Bottom faces	Sqm	2	5.37		1.60	17.17			
		Staircase beam	Sqm	2	3.50		0.40	2.80			
		Landing-above wall	Sqm	1	3.40		1.19	4.05			
		ceiling	Sqm	1	23.92	39.70		949.62			
		Deduction	Sqm								
		Column									
		C1	Sqm	16	0.45	-0.60		-4.32			
		C2	Sqm	2	0.30	-0.45		-0.27			
			Sqm	3	0.30	-0.45		-0.41			
			Sqm	3	0.30	-0.45		-0.41			
		Beam Plastering									
		B2(450 X 1300)	Sqm	15	23.90		1.15	412.28			
			Sqm	1	23.90		1.30	31.07			
		B4(300 X 300)	Sqm	28	4.05		0.15	17.01			
		B3(300 X600)	Sqm	16	4.05		0.45	29.16			
		B3(300X 600)	Sqm	2	35.90		0.60	43.08			
		Gents Change Room									
		Long wall	Sqm	2	9.15		0.72	13.18			
		Short wall	Sqm	2	3.50		0.72	5.04			
		cealing	Sqm	1	9.15	3.50		32.03			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
		Ladies Change Room									
		Long wall	Sqm	2	9.00		0.72	12.96			
		Short wall	Sqm	2	3.5		0.72	5.04			
		ceiling	Sqm	1	9.00	3.50		31.50			
		Second Floor									
		ceiling	Sqm	1	6.00	3.70		22.20			
		lobby	Sqm	1	4.00	3.70		14.80			
		office	Sqm	1	3.30	3.70		12.21			
		Gents Changing Room	Sqm	1	3.30	3.70		12.21			
		Ladies Changing Room	Sqm								
		Slab At 4.5m LVL									
		Eastenside and Westernside	Sqm	2	35.50	1.61		114.31			
		Beam plastering	Sqm	4	31.50		0.30	37.80			
		Ext Wall									
		Wall upto 4.5m LVL									
		Southenside Wall	Sqm	1	23.55		4.35	102.44			
		Eastenside and Westenside Wall	Sqm	2	35.50		4.35	308.85			
		middle Portion Wall	Sqm	1	23.55		4.35	102.44			
		Lobby	Sqm	1	3.70		4.35	16.10			
			Sqm	1	12.49		4.35	54.33			
			Sqm	1	5.80		4.35	25.23			
			Sqm	1	3.70		2.20	8.14			
			Sqm	2	3.70		4.35	32.19			
		Office	Sqm	2	3.70		2.25	16.65			
		Gents Changing Room	Sqm	2	3.30		2.25	14.85			
			Sqm	2	3.70		2.25	16.65			
		Ladies Changing Room	Sqm	2	3.30		2.25	14.85			
		Deduction									
		W	Sqm	2	1.50		-2.07	-6.21			
		WI	Sqm	1.5	1.20		-1.20	-2.16			
		V	Sqm	2	0.75		-0.6	-0.90			
		D	Sqm	1	1.8		-2.1	-3.78			
		DI	Sqm	2	0.9		-2.1	-3.78			
		Terrace									
		Lobby Portion									
		North	Sqm	1	10.20		1.04	10.61			
			Sqm	1	5.80		1.04	6.03			
			Sqm	1	3.42		1.04	3.56			
		East	Sqm	1	5.47		0.46	2.52			
		South	Sqm	1	10.21		0.46	4.70			
			Sqm	2	1.9		0.89	3.38			
		West	Sqm	2	3.42	2.20		15.05			
		East&west Slab	Sqm	2	3.42		0.43	2.94			
		Gutter									
		Rolling shutter	Sqm	2	3.00		2.98	17.88			
							Total Executed Quantity	2880.15	97.20	279950.43	
							Tender Quantity	5706.42			

Item No 27 Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,labour, curing complete as per specifications. Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3 12mm thick cost of materials complete as per specifications.

		Ceiling Plastering									
		Ground Floor									
		Changing Room									
		Ladies Changing Room	Sqm	1	9.00	3.60		32.40			
		Gents Changing Room	Sqm	1	9.10	3.50		31.85			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
		First Floor									
		ceiling	Sqm	1	23.92	39.70		949.62			
		Deduction									
		Column									
		C1	Sqm	16	0.45	-0.60		-4.32			
		C2	Sqm	2	0.30	-0.45		-0.27			
			Sqm	3	0.30	-0.45		-0.41			
			Sqm	3	0.30	-0.45		-0.41			
		Beam Plastering									
		B2(450 X 1300)	Sqm	14	23.90		1.15	384.79			
		B7(450X1400)	Sqm	1	23.90		1.15	27.49			
			Sqm	1	23.90		1.40	33.46			
		B4(300 X 300)	Sqm	28	4.05		0.15	17.01			
		B4(300 X600)	Sqm	16	4.05		0.45	29.16			
		B4(300X 600)	Sqm	2	35.90		0.60	43.08			
		Second Floor									
		ceiling									
		lobby	Sqm	1	6.00	3.70		22.20			
		office	Sqm	1	4.00	3.70		14.80			
		Staircase Bottom	Sqm	1	6.75	3.50		23.63			
		Gents Changing Room	Sqm	1	3.30	3.70		12.21			
		Ladies Changing Room	Sqm	1	3.30	3.70		12.21			
		Slab At 4.5 m lvl									
		Easternside and Westernside	Sqm	2	35.50	1.61		114.31			
		Beam plastering	Sqm	4	31.50		0.30	37.80			
							Total Executed Quantity	**1780.61**			
							Tender Quantity	**1378.56**			
							Quantity upto 125%	**1723.20**	**208.44**	**359183.81**	
							Quantity Above 125%	**57.41**	**208.44**	**11967.37**	
Item No.28		Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.30, I. 9.4) PRED.SR 2012-13										
			Nos	1.00				1.00			
			Nos	1.00				1.00			
							Total Executed Quantity	**2.00**	**1900.00**	**3800.00**	
							Tender Quantity	**2.00**			
Item No.29		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 0 to 50 m									
0	50		Mtrs	2	50			100.00			
							Total Executed Quantity	**100.00**	**306.00**	**30600.00**	
							Tender Quantity	**100.00**			
Item No.30		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 50 to 100 m									
50	100		Mtrs	2	50			100.00			
							Total Executed Quantity	**100.00**	**400.00**	**40000.00**	
							Tender Quantity	**100.00**			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
Item No.31		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 100 to 150 m									
100	150		Mtrs	2	50			100.00			
		Total Executed Quantity						**100.00**	**445.00**	**44500.00**	
		Tender Quantity						**100.00**			
Item No.32		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 150 to 200 m									
150	200		Mtrs	2	50			100.00			
		Total Executed Quantity						**100.00**	**470.00**	**47000.00**	
		Tender Quantity						**100.00**			
Item No.33		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 200 to 250 m									
200	250		Mtrs	2	50			100.00			
		Total Executed Quantity						**100.00**	**544.00**	**54400.00**	
		Tender Quantity						**100.00**			
Item No.34		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 250 to 300 m									
250	300		Mtrs	2	50			100.00			
		Total Executed Quantity						**100.00**	**583.00**	**58300.00**	
		Tender Quantity						**100.00**			
Item No.35		Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandam									
			Mtrs	1	72			72.00			
			Mtrs	1	68			68.00			
		Total Executed Quantity						**140.00**	**1325.00**	**185500.00**	
		Tender Quantity						**140.00**			
Item No.36		Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work									
			Mtrs	1	30			30.00			
				1	35			35.00			
		Total Executed Quantity						**65.00**	**754.47**	**49040.55**	
		Tender Quantity						**160.00**			
Item No.37		Providing and fixing 175mm Borewell Cap									
			Nos	2				2.00			
		Total Executed Quantity						**2.00**	**150.00**	**300.00**	
		Tender Quantity						**2.00**			
Item No.38		Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 40 stage.									
			Nos	2				2.00			
		Total Executed Quantity						**2.00**	**44000.00**	**88000.00**	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.87

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							Tender Quantity	**2.00**			
		Item No 39 Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part 1/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class									
			Mtrs	1	370			370.00			
			Mtrs	1	330			330.00			
							Total Executed Quantity	**700.00**	**415.00**	**290500.00**	
							Tender Quantity	**700.00**			
		Item No.40 Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/1 No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group -									
			Mtrs	2	370			740.00			
			Mtrs	2	330			660.00			
							Total Executed Quantity	**1400.00**	**151.00**	**211400.00**	
							Tender Quantity	**1400.00**			
		Item No.41 Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost)									
			Nos	1				1.00			
			Nos	1				1.00			
							Total Executed Quantity	**2.00**	**3000.00**	**6000.00**	
							Tender Quantity	**2.00**			
		Item No.42 Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,									
			Nos	1				1.00			
							Total Executed Quantity	**1.00**	**285.00**	**285.00**	
							Tender Quantity	**2.00**			
		Item No.43 Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/1 No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08									
			Mtrs	1	30			30.00			
			Mtrs	1	15			15.00			
							Total Executed Quantity	**45.00**	**150.00**	**6750.00**	
							Tender Quantity	**120.00**			
		Item No.44 Labour charges for laying of 1.1 K.V class UG cable									
		Qty	Mtrs	per length				**45.00**			
							Total Executed Quantity	**45.00**	**8.00**	**360.00**	
							Tender Quantity	**120.00**			
		Item No.45 Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR									
			Rmt	1	30			**30.00**			
			Rmt	1	15			**15.00**			
							Total Executed Quantity	**45.00**	**60.00**	**2700.00**	
							Tender Quantity	**60.00**			
		Item No.46 Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class									
			Rmt	1	3			**3.00**			
			Rmt	1	3			**3.00**			
							Total Executed Quantity	**6.00**	**240.00**	**1440.00**	
							Tender Quantity	**30.00**			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.87

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
Item No.47		Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia.									
			Rmt	1	2			2.00			
			Rmt	1	2			2.00			
							Total Executed Quantity	4.00	1950.00	7800.00	
							Tender Quantity	4.00			
Item No.48		Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc complete...									
			Nos	3				3.00			
			Nos	3				3.00			
							Total Executed Quantity	6.00	120.00	720.00	
							Tender Quantity	6.00			
Item No.49		Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
			Nos	1				1.00			
			Nos	1				1.00			
							Total Executed Quantity	2.00	1114.00	2228.00	
							Tender Quantity	2.00			
Item No.50		Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. No. 13.81.3 PWD SR 2007-08									
		50mm dia	Nos	1				1.00			
			Nos	1				1.00			
							Total Executed Quantity	2.00	201.40	402.80	
							Tender Quantity	2.00			
Item No.51		Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete									
			Nos	1				1.00			
			Nos	1				1.00			
							Total Executed Quantity	2.00	80.00	160.00	
							Tender Quantity	2.00			
Item No.52		Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications									
			Nos	1				1.00			
			Nos	1				1.00			
							Total Executed Quantity	2.00	350.00	700.00	
							Tender Quantity	2.00			
Item No.53		Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications									
			Nos	1				1.00			
			Nos	1				1.00			
							Total Executed Quantity	2.00	1000.00	2000.00	
							Tender Quantity	2.00			
Item No.54		Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 15HP to 30 HP Star Delta Starter									
			Nos	1				1.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
			Nos	1				1.00			
							Total Executed Quantity	2.00	65700.00	131400.00	
							Tender Quantity	2.00			
Item No.55		Providing and instalation at site of works P.V.C Pipes including cost of pipes and specials and including lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,									
		Item Not Operated									
Item No.56		KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 (P.98/I.13.38 PWD SR - 2013-14)									
			Nos	2				2.00			
			Nos	2				2.00			
							Total Executed Quantity	4.00	2781.00	11124.00	
							Tender Quantity	4.00			
Item No. 57		Providing and laying wooden floor for batmitun court & Gym room using 50x75mm Runners at the intervals of 0.45 both ways using mathi/sal wood with nailing properly fixing to existing roof concrete and above the Runners the planks of teakwood using tung & groove system with necessary chemicals niles. polishing to be made for the teakwood planks. Approved Rate									
		First Floor									
		Yoga Room									
			Sqm	1	13.60	9.35		127.12			
		Near Door	Sqm	1	1.78	0.10		0.18			
		Skirting									
		East Side	Sqm	1	13.84		0.11	1.52			
		West Side	Sqm	1	13.30		0.11	1.46			
		North Side	Sqm	1	10.10		0.11	1.11			
		South Side	Sqm	1	9.80		0.11	1.08			
		Columns	Sqm	2	2.30		0.11	0.50			
		Second Floor									
		Badminton Court	Sqm	1	35.77	19.50		697.44			
		Deduction									
		Columns for Flooring	Sqm	-2	0.65	0.50		-0.65			
			Sqm	-1	0.65	0.39		-0.25			
			Sqm	-1	0.50	0.10		-0.05			
			Sqm	-1	0.47	0.20		-0.09			
		Door	Sqm	-1	1.78		0.11	-0.20			
		Column	Sqm	-2	0.65	0.50		-0.65			
			Sqm	-1	0.65	0.39		-0.25			
			Sqm	-1	0.50	0.10		-0.05			
			Sqm	-1	0.47	0.20		-0.09			
							Total Executed Quantity	828.13	12000.00	9937507.00	
							Tender Quantity	1080.00			
Item No.58		Providing and laying 1.35mm pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. Approved Rate									
0	30		Sqm	1	30.00	25.50		765.00			
30	40.5		Sqm	1	10.50	25.50		267.75			
							Total Executed Quantity	1032.75	2916.00	3011499.00	
							Tender Quantity	1560.00			
Item No.59		Supply, installtion, testing and commissioning of filters Commercial Bobin wound filter with 160mm fiange connection - 157 cumtr/hr Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work									
			Nos	2				2.00			
		Near Baby pool	Nos	1				1.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Total Executed Quantity						**3.00**			
		Tender Quantity						**2.00**			
		Quantity upto 125%						**2.50**	**535000.00**	**1337500.00**	
		Quantity Above 125%						**0.50**	**535000.00**	**267500.00**	
		Item No.60 Supply, installtion, testing and commissioning of VALVE BATTERY Frontal Valve Assembly 160 mm connections with Valve support and Brackets Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work									
			set	2				2.00			
		Total Executed Quantity						**2.00**	**215940.00**	**431880**	
		Tender Quantity						**2.00**			
		Item No.61 Supply, installtion, testing and commissioning of RECIRCULATING PUMPS 10 HP monoblock centrifugal pump 400V 3ph discharge:45 LPS at 13m head suction size:150mm, delivery: 150mm includes 1no standby directions of the Engineer-In-charge of the work									
			Nos	3				3.00			
		Total Executed Quantity						**3.00**	**74290.00**	**222870**	
		Tender Quantity						**3.00**			
		Item No.62 Supply, installtion, testing and commissioning of FLOOR INLETS bottom inlet for concrete with S.S. screws made of ABS plastic. Max. flow: 10cum/hr 2 inches threaded fitting directions of the Engineer-In-charge of the work									
			Nos	50				50.00			
		Total Executed Quantity						**50.00**	**875.00**	**43750**	
		Tender Quantity						**50.00**			
		Item No. 63 Supply, installtion, testing and commissioning of GUTTER GRATINGS Made in white, U.V. Stabilized PP. Width: 245mm, Height : 35mm directions of the Engineer-In-charge of the work									
			Nos	2	30.00			60.00			
		Total Executed Quantity						**60.00**	**3060.00**	**183600.00**	
		Tender Quantity						**72.00**			
		Item No. 64 Supply, installtion, testing and commissioning of MAIN DRAIN GRATING COVER, material : SS 304 500mm x 500mmx6mm thick with slot openings of 6mm directions of the Engineer-In-charge of the work									
		Item Not Operated									
		Item No.65 Supply, installtion, testing and commissioning of STAINLESS STEEL PREFILTER 6 inches opening with threaded collar with sight glass, SS sieve, flow:170cum/hr Material: SS 304 directions of the Engineer-In-charge of the work									
			Nos	3				3.00			
		Total Executed Quantity						**3.00**	**41500.00**	**124500**	
		Tender Quantity						**3.00**			
		Item No.66 Supply, installtion, testing and commissioning of SUCTION INLETS ABS plastic, 2 inches external DIA glue type Flow:3.5 cum/hr, with threaded cap directions of the Engineer-In-charge of the work									
			Nos	50				50.00			
		Total Executed Quantity						**50.00**	**875.00**	**43750**	
		Tender Quantity						**50.00**			
		Item No. 67 Supply, installtion, testing and commissioning of STAINLESS STEEL LADDERS made of SS 316 with pipe dia 38mm with non skid steps with embossed finish or checkered finish overflow model No of steps = 3 directions of the Engineer-In-charge of the work									
		Swimming Pool ladder	Nos	2				2.00			
		Total Executed Quantity						**2.00**	**51750.00**	**103500.00**	
		Tender Quantity						**2.00**			
		Item No. 68 No of steps = 4 directions of the Engineer-In-charge of the work									
		Swimming Pool ladder	Nos	2				2.00			
		Total Executed Quantity						**2.00**	**55315.00**	**110630.00**	
		Tender Quantity						**2.00**			
		Item No.69 No of steps = 5 directions of the Engineer-In-charge of the work									
		Item Not Operated									
		Item No.70 Supply, installtion, testing and commissioning of MAINTENANCE KIT COMPRISING OF: a) LEAFE RAKE Deep bag net made in polypropylene and polyester netting butterfly nut connection directions of the Engineer-In-charge of the work									
		Item Not Operated									
		Item No.71 Curved brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work									
		Item Not Operated									

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No 72		Straight brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No 73		Reinforced aluminium telescopic handle 2.4/4.8m with clip connection directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No 74		Metallic Anodized Aluminium Vacuum head directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No 75		Extensible handles for cleaning attachments in anodized aluminium which can be adapted to the entire range of cleaning equipment, brushes. leaf skimmers and scoops 10m long directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No 76		Transparent blue plastic vacuum hose 11/2" dia 30mtr slong including hose cuffs for connection to suction inlets directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No 77		Supply, installtion, testing and commissioning of TEST KIT for checking free Chlorine & pHTablet type DPD directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No 78		Supply, installtion, testing and commissioning of POOL CLEANER trolly mounted with 1.5 Hp self priming pump with prefillter, starter and 63mm flexible hose directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.79		Supply, installtion, testing and commissioning of LANE SEPERATOR ROPES directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No. 80		Supply, installtion, testing and commissioning of ANCHOR HOOKS STAINLESS STEEL fixed to end walls for lane ropes directions of the Engineer-In-charge of the work									
			Nos	15				15.00			
							Total Executed Quantity	**15.00**			
							Tender Quantity	**12.00**			
							Quantity upto125%	**15.00**	**3300.00**	**49500.00**	
Item No.81		Supply, installtion, testing and commissioning of CONTRL PANNEL WIRING, floor mounted CP, Control of Mtrs, volts meter, 3 Phase indicater System, Change over shutter, ELCB, MCB, Pump, coverage to each indicator relay, cable and conduit with pump engineers specification directions of the Engineer-In-charge of the work									
			Nos	1				1.00			
							Total Executed Quantity	**1.00**	**100000.00**	**100000.00**	
							Tender Quantity	**1.00**			
Item No. 82		Supply, installtion, testing and commissioning of GAS CHLORINATION SYSTEM vacuum type cylinder mounted gas (DCM) chlorinator capacity 0-500 gms/hr, chlorination system consisting of filter Assembly, Vacuum Regulator, flow meter assembly, control valve assembly, injector assembly including booster pump assembly and piping complete directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.83		Supply, installtion, testing and commissioning of BUTTERFLY VALVES Wafer type PN 10 STD,replacable EPDM sleeve CI body with SS316 disc a) 10 INCHES directions of the Engineer-In-charge of the work									
			Nos	10				10.00			
							Total Executed Quantity	**10.00**			
							Tender Quantity	**2.00**			
							Quantity upto 125%	**2.50**	**26220.00**	**65550.00**	
							Quantity Above 125%	**7.50**	**26220.00**	**196650.00**	
Item No.84		Supply, installtion, testing and commissioning of NON RETURN VALVES Material: gun metal Size: 8 inches directions of the Engineer-In-charge of the work									
			Nos	3				3.00			
							Total Executed Quantity	**3.00**			
							Tender Quantity	**2.00**			
							Quantity upto 125%	**3.00**	**19700.00**	**59100.00**	
Item No.85		Supply, installtion, testing and commissioning of UPVC PIPES a) 400 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work									
			m	77				77.00			
							Total Executed Quantity	**77.00**	**4900.00**	**377300.00**	
							Tender Quantity	**77.00**			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From / To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
	d) 63 MM DIA 10KG/SQCM directions of the Engineer-In-charge of the work									
Item No.86	63 mm Pipes	m	1	12.00			12.00			
		m	49				49.00			
							61.00			
							49.00			
							61.00	**260.00**	**15860.00**	
Item No.87	e) 160 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work	m	220				220.00			
							220.00	**2000.00**	**440000.00**	
							220.00			
Item No.88	Supply, installtion, testing and commissioning of UPVC ELBOW 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work	Nos	10				10.00			
							10.00	**4025.00**	**40250.00**	
							10.00			
Item No.89	c) 400 MM directions of the Engineer-In-charge of the work	Nos	9				9.00			
							9.00	**26800.00**	**241200.00**	
							9.00			
Item No.90	e)160 MM directions of the Engineer-In-charge of the wor	Nos	28				28.00			
							28.00	**1650.00**	**46200.00**	
							28.00			
Item No.91	Supply, installtion, testing and commissioning of UPVC TEE 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work	Nos	49				49.00			
							49.00	**2750.00**	**134750.00**	
							49.00			
Item No.92	c) 400 MM directions of the Engineer-In-charge of the work	Nos	10				10.00			
							10.00	**18055.00**	**180550.00**	
							10.00			
Item No.93	e)160 MM directions of the Engineer-In-charge of the work	Nos	7				7.00			
							7.00	**1650.00**	**11550.00**	
							7.00			
Item No.94	Supply, installtion, testing and commissioning of UPVC REDUCER 6 KG/SQCM a) 160/400 directions of the Engineer-In-charge of the work	Nos	7				7.00			
							7.00	**20800.00**	**145600.00**	
							7.00			
Item No.95	63/160 directions of the Engineer-In-charge of the work	Nos	49				49.00			
							49.00	**1090.00**	**53410.00**	
							49.00			
Item No. 96	Supply, installtion, testing and commissioning of STARTING BLOCKS FIBREGLASS 400 mm height non slip finish 0.5x 0.5m with nos 1 to 9 with anchoring fixtures directions of the Engineer-In-charge of the work									
	Item Not Operated									
Item No. 97	Providing and fixing of white colour vitreous China clay,water closet European type (pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,PVC flush cistern (all are approved make) with fitting CI/MS brackets, 40mm diameter flush bend with fittings and clamp, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no74,It no.12.5)									
	Ground Floor	Nos	5				5.00			
	First Floor	Nos	3				3.00			
	Second Floor	Nos	2				2.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No. 98 Providing and fixing of white colour vetreous China clay flat back. lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, CI /MS brackets, standard flush pipe and CP brass spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11(P.no 75,It no.12.7)									
Ground Floor	Nos	3				3.00			
First Floor	Nos	3				3.00			
					Total Executed Quantity	6.00			
					Tender Quantity	5.00			
					Quantity upto 125%	6.00	3204.36	19226.16	
Item No. 99 Providing and fixing of white colour vetreous China clay flat back wash basin size 630x450mm with a single 15mm CP brass piller tap with CI / MS brackets, 32 mm CP brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no78 It.no.12.24)									
Ground Floor	Nos	2				2.00			
First Floor	Nos	6				6.00			
Second Floor	Nos	2				2.00			
					Total Executed Quantity	10.00	3247.56	32475.60	
					Tender Quantity	10.00			
Item No. 100 Providing and fixing 600x450mm bevel lead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with CP screws, washers, including cost of materials, labour complete as per specifications.(P.no 79,It no.12.39)									
					Item Not Operated				
Item No. 101 Providing and fixing C.P brass towel rail 740mm length, 20 mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specification.(P.no 80,It no.12.45)									
					Item Not Operated				
Item No. 102 Providing and fixing 15mm dia Bib Cock									
Ground Floor	Nos	2				2.00			
First Floor	Nos	9				9.00			
					Total Executed Quantity	11.00	180.00	1980.00	
					Tender Quantity	30.00			
Item No. 103 Providing and fixing Brass Union 15mm nominal bore with PVC Connection pipe 300mm length									
					Item Not Operated				
Item No. 104 Providing and fixing in position brass stop cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 20mm nominal bore									
Ground Floor	Nos	19				19.00			
First Floor	Nos	14				14.00			
Second Floor	Nos	8				8.00			
					Total Executed Quantity	41.00			
					Tender Quantity	30.00			
					Quantity upto125%	37.50	172.80	6480.00	
					Quantity above 125%	3.50	155.31	544.00	
Item No. 105 Providing and fixing in position brass bib cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 15mm nominal bore									
Health Faucets									
Ground Floor	Nos	5				5.00			
First Floor	Nos	3				3.00			
Second Floor	Nos	2				2.00			
					Total Executed Quantity	10.00	249.48	2494.80	
					Tender Quantity	15.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No 106		Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe									
		Ground Floor									
			m	1	30.00			30.00			
			m	1	30.00			30.00			
	30		m	1	14.50			14.50			
	60										
	74.5	Second Floor	m	1	30.00			30.00			
			m	1	30.00			30.00			
	30		m	1	14.00			14.00			
	60										
	74										
		from sump to sintex	m	32	3.00			96.00			
		from sintex to two bathrooms	m	64	3.00			192.00			
								436.50			
								150.00			
								187.50	**178.20**	**33412.50**	
								249.00	**178.20**	**44371.80**	
Item No 107		Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 50mm nominal OD Pipe									
		From Filter to Pool	m	1	10			10.00			
								10.00	**486.00**	**4860.00**	
								10.00			
Item No 108		Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 100mm Nominal OD Pipe									
		From Pool to Filter	m	1	10			10.00			
								10.00	**2570.40**	**25704.00**	
								10.00			
Item No. 109		Providing and fixing water meter with stop cock, jam nut, socket in G.I pipe line including cutting and threading the pipe and making long screws including cost of all materials, labour , HOM of equipments and testing complete as per specificationsKSRB(Pag no 88. Itm 13.22)									
								Item Not Operated			
Item No. 110		Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification25mm nominal Dia									
								Item Not Operated			
Item No. 111		Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.50mm Nominal Dia									
		Ground Floor									
			Nos	15				15.00			
								15.00			
								4.00			
								5.00	**2216.16**	**11080.80**	
								10.00	**1915.49**	**19154.95**	
Item No. 112		Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm dia									
		Ground Floor and Terrace									
			Nos	10				10.00			
								10.00			
								4.00			
								5.00	**648.00**	**3240.00**	
								5.00	**494.57**	**2472.85**	
Item No. 113		Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.80mm dia									
								Item Not Operated			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No. 114		Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia									
		From Pool to Filter									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	100		m	1	10.00			10.00			
		borewell water pipe	m	1	11.30			11.30			
		sump water connection	m	6	9.00			54.00			
							Total Executed Quantity	165.30			
							Tender Quantity	100.00			
							Quantity upto125%	125.00	373.58	46698.00	
							Quantity above 125%	40.30	361.29	14560.00	
Item No.115		Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 90mm dia									
		From Filter to Pool									
0	30		m	1	30			30.00			
30	60		m	1	30			30.00			
60	90		m	1	30			30.00			
90	100		m	1	10			10.00			
							Total Executed Quantity	100.00	616.68	61668.00	
							Tender Quantity	100.00			
Item No.116		Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia									
		110 mm pipes	m	1	72.00			72.00			
		From Pool to Filter									
		Eastern Side									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
		Western Side									
60	90		m	1	30.00			30.00			
90	99		m	1	9.00			9.00			
		Ground Floor									
		Waste water pipe	m	1	5.75			5.75			
							Total Executed Quantity	176.75			
							Tender Quantity	100.00			
							Quantity upto 125%	125.00	774.36	96795.00	
							Quantity above 125%	51.75	774.36	40073.13	
Item No. 117		Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cmsx 7.5									
		Ground Floor	Nos	22				22.00			
		First Floor	Nos	16				16.00			
		Second Floor	Nos	4				4.00			
							Total Executed Quantity	42.00			
							Tender Quantity	30.00			
							Quantity upto125%	37.50	270.00	10125.00	
							Quantity above 125%	4.50	270.00	1215.00	
Item No. 118		Providing and fixing 7.5 cms to 15.00 cms dia NP granting 100 mm dia Pag no 85. Itm 12.111 -									
		Ground Floor	Nos	22				22.00			
		First Floor	Nos	16				16.00			
		Second Floor	Nos	4				4.00			
							Total Executed Quantity	42.00			
							Tender Quantity	30.00			
							Quantity upto125%	37.50	172.80	6480.00	
							Quantity above 125%	4.50	165.22	744.00	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.119 Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table mounted non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x 600mm internal dimensions, total weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications Pag no 70. Itm 11.50.1									
Westernside	Nos	4				4.00			
	Nos	3				3.00			
Total Executed Quantity						**7.00**	**7604.00**	**53228**	
Tender Quantity						**10.00**			
Item No.120 providing and fixing on wall surface 4 kg/sq.cm HDPE rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications P.No.47item No.8.19									
Ground Floor	m	7	6.00			42.00			
	m	17	6.00			102.00			
	m	11	6.00			66.00			
Rain water pipe	m	5	6.00			30.00			
filtre connection									
First Floor	m	5	6.00			30.00			
Toilets	m	5	6.00			30.00			
Total Executed Quantity						**300.00**	**613.44**	**184032.00**	
Tender Quantity						**300.00**			
Item No.121 Providing & fixing of glazed Openable Window made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanixed iron profiles throuhout the window. The outer frame having a overall size of 60x55 mm with reinforcement of 1 mm thickness, mullion with overall size of 74x60 mm with reinforcement of 1 mm and sash with overall size of 75x60 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 34x20 mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame, mullion & sash shall be 2-2.2 mm.									
Ground Floor									
Changing Room									
ladies Changing Room									
V	Sqm	9	0.75		0.60	4.05			
Gents Changing Room									
V	Sqm	8	0.75		0.60	3.60			
Balancing Tank Room									
V	Sqm	5	0.75		0.60	2.26			
Total Executed Quantity						**9.91**	**7560.00**	74889.36	
Tender Quantity						**87.60**			
Item No.122 PART A:- SUBSTATION EQUIPMENT Supply and erection of 11Mtr Spun Pole including earth work etc,. complete as per the standard technical specification directions of the Engineer-In-charge of the work									
	Each	1				1.00			
Total Executed Quantity						**1.00**	**22957.00**	22957.00	
Tender Quantity						**1.00**			
Item No.123 Supply And Fixing of Single Pole Mounted Transformer Kit for 100/250KVA on 11Mtr Spun Pole etc. complete as per the standard technical specification of directions of the Engineer-In-charge of the work									
	Each	1				1.00			
Total Executed Quantity						**1.00**	31800.00	31800.00	
Tender Quantity						**1.00**			
Item No.124 Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work 5.8.8) GOS Set 200 Amps Single break									
	Each	1				1.00			
Total Executed Quantity						**1.00**	9840.00	9840.00	
Tender Quantity						**1.00**			
Item No.125 Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work5.8.1) H Frame Set									
	Each	1				1.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

S.O. NO. OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
					Total Executed Quantity	1.00	4560.00	4560.00	
					Tender Quantity	1.00			
Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.3) Horizontal. 50x45x5mm - 980mm directions of the Engineer-In-charge of the work									
	Each	2				2.00			
					Total Executed Quantity	2.00	562.00	1124.00	
					Tender Quantity	2.00			
Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.4) Disc Insulator 70/90 KN directions of the Engineer-In-charge of the work									
	Each	6				6.00			
					Total Executed Quantity	6.00	540.00	3240.00	
					Tender Quantity	6.00			
Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.3)11 KV Pin Insulator directions of the Engineer-In-charge of the work									
	Each	6				6.00			
					Total Executed Quantity	6.00	114.00	684.00	
					Tender Quantity	6.00			
Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.8)HT ST Support 50x8 mmdirections of the Engineer-In-charge of the work									
	Each	2				2.00			
					Total Executed Quantity	2.00	172.00	344.00	
					Tender Quantity	2.00			
Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.1)4 Pin 45x45x5mm - 1110mm directions of the Engineer-In-charge of the work									
	Each	4				4.00			
					Total Executed Quantity	4.00	461.00	1844.00	
					Tender Quantity	4.00			
Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.10)Horn Gap Fuse Unit (H.G.) directions of the Engineer-In-charge of the work									
	Each	1				1.00			
					Total Executed Quantity	1.00	1320.00	1320.00	
					Tender Quantity	1.00			
Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.12)Lightning Arrestor 9KV 5kA polymeric type. directions of the Engineer-In-charge of the work									
	Each	1				1.00			
					Total Executed Quantity	1.00	4250.00	4250.00	
					Tender Quantity	1.00			
Supplying erection, testing and commissioning of 11kV Load Break Switch with 4 wire- (with Neutral) Metering cubicle and connected accessories, hardware's etc. suitable for outdoor type complete as per latest IS standard technical specification. LBS should be approved by BESCOM System :11KV, 3PH, 50HZ, Fault level: 350 MVA. Installation : OUTDOOR. a.Onload AIR BREAK switch with fuse trip mechanism.,3P,400A, 12KV,18.4 KA, 350MVA - 1 no b.11KV HRC Fuses with triping striker pin suitable Amps - 3nos c.Aluminium busbar, suitable rating 3 Phase,Air insulated with heat shrinkable sleevs - 1set d.Earth 25X3 mm Tin coated copper busbar - 1set e.Busbar supports resin cast with 33KV die electric and mechanical strength - 1 set directions of the Engineer-In-charge of the work									
	Each	1				1.00			
					Total Executed Quantity	1.00	319987.00	319987.00	
					Tender Quantity	1			
Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07 directions of the Engineer-In-charge of the work									
Item Not Operated									
GI Pipes B - Class GI Pipe - 150 mm Dia Dia 768058 directions of the Engineer-In-charge of the work									
	m	1	10			10.00			
					Total Executed Quantity	10.00	1144.00	11440.00	
					Tender Quantity	10.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

SAMIL OI WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

No.	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Quantity to be From To										
Item No.136	TRANSFORMER :- Supplying, erecting, testing and commissioning of ..... KVA capacity Copper wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to-10% Steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification. 8.10.2) 100 KVA directions of the Engineer-In-charge of the work									
		Each	1				1.00			
							Total Executed Quantity	**1.00**	**328700.00**	**328700.00**
							Tender Quantity	**1.00**		
Item No.137	LT KIOSK :- LT Distribution Box for 63/100 KVA Transformer with 1No 160Amps 25kA 4Pole MCCB, suitable capacity aluminum bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Transformer Centre directions of the Engineer-In-charge of the work									
		Set	1				1.00			
							Total Executed Quantity	**1.00**	**18270.00**	**18270.00**
							Tender Quantity	**1.00**		
Item No.138	B EARTHING SYSTEM Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia directions of the Engineer-In-charge of the work									
		Each	6				6.00			
							Total Executed Quantity	**6.00**	**2727.00**	**16362.00**
							Tender Quantity	**6.00**		
Item No.139	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. directions of the Engineer-In-charge of the work									
		Each	8				8.00			
							Total Executed Quantity	**8.00**	**4317.00**	**34536.00**
							Tender Quantity	**8.00**		
Item No.140	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work									
		m	1	17			17.00			
							Total Executed Quantity	**17.00**	**523.00**	**8891.00**
							Tender Quantity	**17.00**		
Item No.141	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work									
		m	1	12			12.00			
							Total Executed Quantity	**12.00**	**1018.00**	**12216.00**
							Tender Quantity	**12.00**		
Item No.142	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm plate directions of the Engineer-In-charge of the work									
		m	1	4			4.00			
							Total Executed Quantity	**4.00**	**7148.00**	**28592.00**
							Tender Quantity	**4.00**		
Item No.143	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip directions of the Engineer-In-charge of the work									
0 30		m	1	30.00			30.00			
30 60		m	1	30.00			30.00			
60 90		m	1	30.00			30.00			
90 105		m	1	15.00			15.00			
							Total Executed Quantity	**105.00**	**77.00**	**8085.00**
							Tender Quantity	**109.00**		
Item No.144	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm GI strip directions of the Engineer-In-charge of the work									
		m	1	20			20.00			
							Total Executed Quantity	**20.00**	**166.00**	**3320.00**
							Tender Quantity	**20.00**		

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI Plate									
directions of the Engineer-In-charge of the work	m	1	4			4.00			
					Total Executed Quantity	4.00	784.00	3136.00	
					Tender Quantity	4.00			
Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire									
8 SWG directions of the Engineer-In-charge of the work	m	1	30.00			30.00			
	m	1	5.00			5.00			
					Total Executed Quantity	35.00	19.50	682.50	
					Tender Quantity	35.00			
PART C:-L.T Panel boards and distribution boards									
1.0) Main LT Panel									
"Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.									
6.40.1) 14SWG" directions of the Engineer-In-charge of the work									
Panel Board	Sqcm	2	180.00	125.00		45000.00			
	Sqcm	2	27.00	125.00		6750.00			
Top Face	Sqcm	1	27.00	180.00		4860.00			
Bottom Face	Sqcm	1	27.00	180.00		4860.00			
L Channel	Sqcm	2	37.00	8.00		592.00			
Bus Bay	Sqcm	6	30.00	30.00		5400.00			
	Sqcm	6	30.00	9.00		1620.00			
Top Face	Sqcm	3	30.00	9.00		810.00			
Bottom Face	Sqcm	3	30.00	9.00		810.00			
3 Phase Pump Control Panel-1	Sqcm	2	30.00	35.00		2100.00			
	Sqcm	2	12.00	35.00		840.00			
Top Face	Sqcm	1	30.00	12.00		360.00			
Bottom Face	Sqcm	1	30.00	12.00		360.00			
3 Phase Pump Control Panel-2	Sqcm	2	33.00	43.00		2838.00			
	Sqcm	2	12.00	43.00		1032.00			
Top Face	Sqcm	1	12.00	33.00		396.00			
Bottom Face	Sqcm	1	12.00	33.00		396.00			
HT LT Control Panel	Sqcm	2	74.00	185.00		27380.00			
	Sqcm	2	96.00	185.00		35520.00			
Top Face	Sqcm	1	96.00	74.00		7104.00			
Bottom Face	Sqcm	1	96.00	74.00		7104.00			
Meter Box	Sqcm	1	70.00	63.00		4410.00			
	Sqcm	3	17.00	63.00		3213.00			
Top Face	Sqcm	1	17.00	70.00		1190.00			
Bottom Face	Sqcm	1	17.00	70.00		1190.00			
HT LT Control Panel	Sqcm	2	74.00	185.00		27380.00			
	Sqcm	2	80.00	185.00		29600.00			
Top Face	Sqcm	1	74.00	80.00		5920.00			
Bottom Face	Sqcm	1	74.00	80.00		5920.00			
200A LT Panel	Sqcm	4	48.00	78.00		14976.00			
Top Face	Sqcm	1	60.00	60.00		3600.00			
Bottom Face	Sqcm	1	48.00	48.00		2304.00			
					Total Executed Quantity	255835.00			
					Tender Quantity	173440.00			
					Quantity upto 125%	216800.00	0.37	80216.00	
					Quantity above 125%	39035.00	0.44	17198.70	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.148	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint (6.39.5) 75x150x75x6mm C channel directions of the Engineer-In-charge of the work									
		m	1	5			5.00			
						Total Executed Quantity	5.00	791.00	3955.00	
						Tender Quantity	5.00			
Item No.149	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE 200Amps 35kA.(Incoming) directions of the Engineer-In-charge of the work									
		Nos	1				1.00			
						Total Executed Quantity	1.00	14592.00	14592.00	
						Tender Quantity	1.00			
Item No.150	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE125-160Amps 25kA.(Outgoing) directions of the Engineer-In-charge of the work									
		Nos	3				3.00			
						Total Executed Quantity	3.00	7372.00	22116.00	
						Tender Quantity	3.00			
Item No.151	Supplying and fixing of Shunt trip suitable for MCCB.CBCT. directions of the Engineer-In-charge of the work									
		Nos	4				4.00			
						Total Executed Quantity	4.00	1486.00	5944.00	
						Tender Quantity	4.00			
Item No.152	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work									
		Nos	3				3.00			
						Total Executed Quantity	3.00	418.00	1254.00	
						Tender Quantity	3.00			
Item No.153	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16. 5-32Amps TPN (Outgoing) directions of the Engineer-In-charge of the work									
		Nos	6				6.00			
						Total Executed Quantity	6.00	1547.00	9282.00	
						Tender Quantity	6.00			
Item No.154	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work									
		Nos	3				3.00			
						Total Executed Quantity	3.00	442.00	1326.00	
						Tender Quantity	3.00			
Item No.155	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work									
		Each	1				1.00			
						Total Executed Quantity	1.00	390.00	390.00	
						Tender Quantity	1.00			
Item No.156	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work									
		Each	1				1.00			
						Total Executed Quantity	1.00	190.00	190.00	
						Tender Quantity	1.00			
Item No.157	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work									
		Each	1				1.00			
						Total Executed Quantity	1.00	415.00	415.00	
						Tender Quantity	1.00			
Item No.158	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work									
		Each	1				1.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
					Total Executed Quantity	**1.00**	**172.00**	**172.00**	
					Tender Quantity	**1.00**			

Item No 160 — Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work

	Each	1				1.00			
					Total Executed Quantity	**1.00**	**8003.00**	**8003.00**	
					Tender Quantity	**1.00**			

Item No 161 — Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work

	Each	3				3.00			
					Total Executed Quantity	**3.00**	**483.00**	**1449.00**	
					Tender Quantity	**3.00**			

Item No 162 — Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. directions of the Engineer-In-charge of the work

	Each	1				1.00			
					Total Executed Quantity	**1.00**	**7998.00**	**7998.00**	
					Tender Quantity	**1.00**			

Item No 163 — Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.
6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work

	m	1	3			3.00			
					Total Executed Quantity	**3.00**	**2942.00**	**8826.00**	
					Tender Quantity	**3.00**			

Item No 164 — Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.6.12.1) 25Amps directions of the Engineer-In-charge of the work

	Each	4				4.00			
					Total Executed Quantity	**4.00**	**1303.00**	**5212.00**	
					Tender Quantity	**4.00**			

Item No 165 — Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. directions of the Engineer-In-charge of the work

	Nos	20				20.00			
					Total Executed Quantity	**20.00**	**414.00**	**8280.00**	
					Tender Quantity	**20.00**			

Item No 166 — Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect / disconnect banks, with automatic recognition or with standard programs. directions of the Engineer-In-charge of the work

	Each	1				1.00			
					Total Executed Quantity	**1.00**	**18660.00**	**18660.00**	
					Tender Quantity	**1.00**			

Item No 167 — Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.
6.39.5) 75x150x75x6mm C channel directions of the Engineer

	m	1	5			5.00			
					Total Executed Quantity	**5.00**	**791.00**	**3955.00**	
					Tender Quantity	**5.00**			

Item No 168 — Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.
5-32Amps SP directions of the Engineer-In-charge of the work

	Each	3				3.00			
					Total Executed Quantity	**3.00**	**418.00**	**1254.00**	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m From	Chainage in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
							Tender Quantity	3.00			
		Item No.168 Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 40-63 Amps TPN (Outgoing) directions of the Engineer-In-charge of the work									
			Each	6				6.00			
							Total Executed Quantity	6.00	1936.00	11616.00	
							Tender Quantity	6.00			
		Item No.169 Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work									
			Each	3				3.00			
							Total Executed Quantity	3.00	442.00	1326.00	
							Tender Quantity	3.00			
		Item No.170 Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work									
			Each	1				1.00			
							Total Executed Quantity	1.00	390.00	390.00	
							Tender Quantity	1.00			
		Item No.171 Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work									
			Each	1				1.00			
							Total Executed Quantity	1.00	140.00	140.00	
							Tender Quantity	1.00			
		Item No.172 Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work									
			Each	1				1.00			
							Total Executed Quantity	1.00	415.00	415.00	
							Tender Quantity	1.00			
		Item No.173 Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work									
			Each	1				1.00			
							Total Executed Quantity	1.00	172.00	172.00	
							Tender Quantity	1.00			
		Item No.174 Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work									
			Each	3				3.00			
							Total Executed Quantity	3.00	483.00	1449.00	
							Tender Quantity	3.00			
		Item No.175 Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work									
			Each	1				1.00			
							Total Executed Quantity	1.00	8003.00	8003.00	
							Tender Quantity	1.00			
		Item No.176 Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor. 6.2.1) Upto 12.5 HP directions of the Engineer-In-charge of the work									
			Each	4				4.00			
							Total Executed Quantity	4.00	6583.00	26332.00	
							Tender Quantity	4.00			
		Item No.177 Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work									
			m	1	5			5.00			
							Total Executed Quantity	5.00	2942.00	14710.00	
							Tender Quantity	5.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.178		3.0) MCB Distribution Boards Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door 6.17.7) 4Way TP &N directions of the Engineer-In-charge of the work									
			Each	3				3.00			
							Total Executed Quantity	3.00	2399.00	7197.00	
							Tender Quantity	3.00			
Item No.179		Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps TPN directions of the Engineer-In-charge of the work									
			Each	3				3.00			
							Total Executed Quantity	3.00	1547.00	4641.00	
							Tender Quantity	3.00			
Item No.180		Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps SP directions of the Engineer-In-charge of the work									
			Each	36				36.00			
							Total Executed Quantity	36.00	418.00	15048.00	
							Tender Quantity	36.00			
Item No.181		PART D:-SUBMAINS CIRCUIT MAINS/POWER WIRING Open Conduit System Supplying heavy gauge PVC conduit pipe .dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
		From Amruthelli Main Road									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	120		m	1	30.00			30.00			
120	150		m	1	30.00			30.00			
150	180		m	1	30.00			30.00			
180	210		m	1	30.00			30.00			
210	240		m	1	30.00			30.00			
240	270		m	1	30.00			30.00			
270	300		m	1	30.00			30.00			
300	330		m	1	30.00			30.00			
330	360		m	1	30.00			30.00			
360	390		m	1	30.00			30.00			
390	420		m	1	30.00			30.00			
420	450		m	1	16.00			16.00			
450	466						Total Executed Quantity	466.00	54.00	25164.00	
							Tender Quantity	469.00			
Item No.182		Open Conduit System Supplying heavy gauge PVC conduit pipedia .mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia 2mm thick directions of the Engineer-In-charge of the work									
		Ground Floor									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	75		m	1	15.00			15.00			
		Second Floor									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	66		m	1	6.00			6.00			
							Total Executed Quantity	141.00	70.00	9870.00	
							Tender Quantity	282.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

AME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.87

MODIFIED ESTIMATE

ge in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
No.183	Open Conduit System Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work									
	Ground Floor									
30		m	1	30.00			30.00			
43		m	1	13.00			13.00			
	Second Floor									
30		m	1	30.00			30.00			
38		m	1	8.00			8.00			
						Total Executed Quantity	81.00	100.00	8100.00	
						Tender Quantity	162.00			
No.184	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia .mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
	Ground Floor									
30		m	1	30.00			30.00			
60		m	1	30.00			30.00			
90		m	1	30.00			30.00			
120		m	1	30.00			30.00			
136		m	1	16.00			16.00			
	First Floor									
30		m	1	30.00			30.00			
60		m	1	30.00			30.00			
90		m	1	30.00			30.00			
120		m	1	30.00			30.00			
136		m	1	16.00			16.00			
	Second Floor									
30		m	1	30.00			30.00			
60		m	1	30.00			30.00			
90		m	1	30.00			30.00			
120		m	1	30.00			30.00			
136		m	1	16.00			16.00			
						Total Executed Quantity	408.00	43.00	17544.00	
						Tender Quantity	408.00			
No.185	Concealed Conduit System Supplying heavy gauge PVC conduit pipe ……mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work									
	Electrical conduit pipes for pool lighting	m	1	16.00			16.00			
	Ground Floor									
30		m	1	30.00			30.00			
60		m	1	30.00			30.00			
90		m	1	30.00			30.00			
120		m	1	30.00			30.00			
150		m	1	30.00			30.00			
180		m	1	30.00			30.00			
210		m	1	30.00			30.00			
240		m	1	30.00			30.00			
270		m	1	30.00			30.00			
300		m	1	30.00			30.00			
330		m	1	30.00			30.00			
360		m	1	30.00			30.00			
390		m	1	30.00			30.00			
420		m	1	30.00			30.00			
450		m	1	30.00			30.00			
480		m	1	30.00			30.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
480	485										
		First Floor	m	1	5.00			5.00			
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	120		m	1	30.00			30.00			
120	150		m	1	30.00			30.00			
150	180		m	1	30.00			30.00			
180	210		m	1	30.00			30.00			
210	240		m	1	30.00			30.00			
240	270		m	1	30.00			30.00			
270	300		m	1	30.00			30.00			
300	330		m	1	30.00			30.00			
330	360		m	1	30.00			30.00			
360	390		m	1	30.00			30.00			
390	420		m	1	30.00			30.00			
420	450		m	1	30.00			30.00			
450	480		m	1	30.00			30.00			
480	484		m	1	30.00			30.00			
		Second Floor	m	1	4.00			4.00			
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	120		m	1	30.00			30.00			
120	150		m	1	30.00			30.00			
150	180		m	1	30.00			30.00			
180	210		m	1	30.00			30.00			
210	240		m	1	30.00			30.00			
240	270		m	1	30.00			30.00			
270	300		m	1	30.00			30.00			
300	330		m	1	30.00			30.00			
330	360		m	1	30.00			30.00			
360	390		m	1	30.00			30.00			
390	420		m	1	30.00			30.00			
420	450		m	1	30.00			30.00			
450	480		m	1	30.00			30.00			
480	484		m	1	4.00			4.00			
							Total Executed Quantity	1469.00			
							Tender Quantity	1453.00			
							Quantity upto 125%	1469.00	57.00	83733.00	

Item No.186 Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary32mm dia 2.5mm thick directions of the Engineer-In-charge of the work

		Ground Floor									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	94		m	1	4.00			4.00			
		First Floor									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	94		m	1	4.00			4.00			
		Second Floor									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	94		m	1	4.00			4.00			
							Total Executed Quantity	282.00	90.00	25380.00	
							Tender Quantity	282.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

ainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
om	To										
em No.187		Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe.dia .mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
		Ground Floor	m	1	10.00			10			
							Total Executed Quantity	**10.00**	**56.00**	**560.00**	
							Tender Quantity	**10.00**			
em No.188		Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia.mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick directions of the Engineer-In-charge of the work									
		Ground Floor									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	120		m	1	30.00			30.00			
20	150		m	1	30.00			30.00			
50	180		m	1	30.00			30.00			
80	210		m	1	30.00			30.00			
10	240		m	1	30.00			30.00			
40	250		m	1	10.00			10.00			
		Second Floor									
0	30		m	1	30.00			30.00			
30	60		m	1	30.00			30.00			
60	90		m	1	30.00			30.00			
90	120		m	1	30.00			30.00			
20	150		m	1	30.00			30.00			
50	175		m	1	25.00			25.00			
							Total Executed Quantity	**425.00**	**58.00**	**24650.00**	
							Tender Quantity	**750.00**			
em No.189		Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.32mm dia 2.5mm thick directions of the Engineer-In-charge of the work									
		Ground Floor									
)	30		m	1	30.00			30.00			
0	60		m	1	30.00			30.00			
0	90		m	1	30.00			30.00			
0	120		m	1	30.00			30.00			
20	134		m	1	14.00			14.00			
		Second Floor									
)	30		m	1	30.00			30.00			
0	60		m	1	30.00			30.00			
0	90		m	1	30.00			30.00			
0	93		m	1	3.00			3.00			
							Total Executed Quantity	**227.00**	**88.00**	**19976.00**	
							Tender Quantity	**400.00**			
m No.190		Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A									
		Ground Floor	Point	10				10			
							Total Executed Quantity	**10.00**	**174.00**	**1740.00**	
							Tender Quantity	**13.00**			
m No.191		Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch directions of the									
		Ground Floor Toilet	Point	19				19			
							Total Executed Quantity	**19.00**	**245.00**	**4655.00**	
							Tender Quantity	**24.00**			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No.192		Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch directions of the									
		Ground Floor	Point	46				46			
		First Floor	Point	40				40			
		Second Floor	Point	40				40			
							Total Executed Quantity	**126.00**	**363.00**	**45738.00**	
							Tender Quantity	**172.00**			
Item No.193		Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches									
		Second Floor Toilet	Point	6				6			
							Total Executed Quantity	**6.00**	**482.00**	**2892.00**	
							Tender Quantity	**8.00**			
em No.194		Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches									
		Second Floor	Point	2				2			
							Total Executed Quantity	**2.00**	**682.00**	**1364.00**	
							Tender Quantity	**2.00**			
m No.195		Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 1.5 sqmm. directions of the Engineer-In-charge of the work									
	30		m	1	30.00			30.00			
	60		m	1	30.00			30.00			
	90		m	1	30.00			30.00			
	120		m	1	30.00			30.00			
	150		m	1	30.00			30.00			
	180		m	1	30.00			30.00			
	210		m	1	30.00			30.00			
	240		m	1	30.00			30.00			
	270		m	1	30.00			30.00			
	300		m	1	30.00			30.00			
	330		m	1	30.00			30.00			
	360		m	1	30.00			30.00			
	390		m	1	30.00			30.00			
	420		m	1	30.00			30.00			
	450		m	1	30.00			30.00			
	480		m	1	30.00			30.00			
	510		m	1	30.00			30.00			
	540		m	1	30.00			30.00			
	570		m	1	30.00			30.00			
	600		m	1	30.00			30.00			
	630		m	1	30.00			30.00			
	660		m	1	30.00			30.00			
	690		m	1	30.00			30.00			
	720		m	1	30.00			30.00			
	750		m	1	30.00			30.00			
	780		m	1	30.00			30.00			
	800		m	1	20.00			20.00			
							Total Executed Quantity	**800.00**	**18.50**	**14800.00**	
							Tender Quantity	**2000**			
.196		Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.2.5 sqmm directions of the Engineer-In-charge of the work									
	30		m	1	30.00			30.00			
	60		m	1	30.00			30.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
60	90		m	1	30.00			30.00			
90	120		m	1	30.00			30.00			
120	150		m	1	30.00			30.00			
150	180		m	1	30.00			30.00			
180	210		m	1	30.00			30.00			
210	240		m	1	30.00			30.00			
240	270		m	1	30.00			30.00			
270	300		m	1	30.00			30.00			
300	330		m	1	30.00			30.00			
330	360		m	1	30.00			30.00			
360	390		m	1	30.00			30.00			
390	420		m	1	30.00			30.00			
420	450		m	1	30.00			30.00			
450	480		m	1	30.00			30.00			
480	510		m	1	30.00			30.00			
510	540		m	1	30.00			30.00			
540	570		m	1	30.00			30.00			
570	600		m	1	30.00			30.00			
600	630		m	1	30.00			30.00			
630	660		m	1	30.00			30.00			
660	690		m	1	30.00			30.00			
690	720		m	1	30.00			30.00			
720	750		m	1	30.00			30.00			
750	780		m	1	30.00			30.00			
780	810		m	1	30.00			30.00			
810	840		m	1	30.00			30.00			
840	870		m	1	30.00			30.00			
870	900		m	1	30.00			30.00			
900	930		m	1	30.00			30.00			
930	960		m	1	30.00			30.00			
960	990		m	1	30.00			30.00			
990	1020		m	1	30.00			30.00			
1020	1050		m	1	30.00			30.00			
1050	1080		m	1	30.00			30.00			
1080	1110		m	1	30.00			30.00			
1110	1140		m	1	30.00			30.00			
1140	1170		m	1	30.00			30.00			
1170	1200		m	1	30.00			30.00			
1200	1230		m	1	30.00			30.00			
1230	1260		m	1	30.00			30.00			
1260	1290		m	1	30.00			30.00			
1290	1320		m	1	30.00			30.00			
1320	1350		m	1	30.00			30.00			
1350	1380		m	1	30.00			30.00			
1380	1410		m	1	30.00			30.00			
1410	1440		m	1	30.00			30.00			
1440	1470		m	1	30.00			30.00			
1470	1500		m	1	30.00			30.00			
1500	1530		m	1	30.00			30.00			
1530	1560		m	1	30.00			30.00			
1560	1590		m	1	30.00			30.00			
1590	1620		m	1	30.00			30.00			
1620	1650		m	1	30.00			30.00			
1650	1680		m	1	30.00			30.00			
1680	1710		m	1	30.00			30.00			
1710	1740		m	1	30.00			30.00			
1740	1770		m	1	30.00			30.00			
1770	1800		m	1	30.00			30.00			
1800	1830		m	1	30.00			30.00			
1830	1860		m	1	30.00			30.00			
1860	1890		m	1	30.00			30.00			
1890	1920		m	1	30.00			30.00			
1920	1950		m	1	30.00			30.00			

BRUHAT BANGALORE MAHANAGARA PALIKE

ME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

ge in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
1980		m	1	30.00			30.00			
2000		m	1	20.00			20.00			
						Total Executed Quantity	2000.00	29.20	58400.00	
						Tender Quantity	5000.00			
197	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.4 sqmm directions of the Engineer-In-charge of the work									
30		m	1	30.00			30.00			
60		m	1	30.00			30.00			
90		m	1	30.00			30.00			
120		m	1	30.00			30.00			
150		m	1	30.00			30.00			
180		m	1	30.00			30.00			
210		m	1	30.00			30.00			
240		m	1	30.00			30.00			
270		m	1	30.00			30.00			
300		m	1	30.00			30.00			
330		m	1	30.00			30.00			
360		m	1	30.00			30.00			
390		m	1	30.00			30.00			
420		m	1	30.00			30.00			
450		m	1	30.00			30.00			
475		m	1	25.00			25.00			
						Total Executed Quantity	475.00	42.30	20092.50	
						Tender Quantity	1200.00			
198	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete. 1-3Way directions of the Engineer-In-charge of the work									
	Item Not Operated									
199	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.4-5Way directions of the Engineer-In-charge of the work									
	Item Not Operated									
200	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.6Way directions of the Engineer-In-charge of the work									
	Item Not Operated									
201	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete. 10-12Way directions of the Engineer-In-charge of the work									
	Item Not Operated									
202	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 1 to 3 Module directions of the Engineer-In-charge of the work									
	Item Not Operated									
203	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.4 Module directions of the Engineer-In-charge of the work									
	Item Not Operated									
204	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.6 Module directions of the Engineer-In-charge of the work									
	Item Not Operated									
205	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.8 Module directions of the Engineer-In-charge of the work									
	Item Not Operated									
206	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.10 Module directions of the Engineer-In-charge of the work									
	Item Not Operated									

BRUHAT BANGALORE MAHANAGARA PALIKE

AME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

age in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
No.207	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc , complete on the existing metal/PVC box 12 Module directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.208	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6Amps 3way socket. directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.209	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 1000-1200Watts Dimmer directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.210	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 16Amps one way switch directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.211	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 32Amps DP switch directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.212	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A TV/Telephone socket directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.213	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6/16Amps universal socket directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.214	PART E:-Light Fixtures and Fan Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 2x4'-28Watts directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.215	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4'-28Watts directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.216	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. Using necessary length of G.I. chain directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.217	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders directions of the Engineer-In-charge of the work									
		Each	69				69.00			
							Total Executed Quantity	**69.00**	**98.00**	**6762.00**
							Tender Quantity	**76.00**		
No.218	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.219	Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC supply directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.220	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 56" Sweep (1400mm) 9.3.2.1) Regular model directions of the Engineer-In-charge of the work									
	Item Not Operated									

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
					(m)	(m)	(m)		Rs	Rs	
From	To										
Item No.221		Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired. directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.222		Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 9.2.1)12" Sweep (300mm) directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.223		Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame. directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.224		PART-F :- CABLE AND CABLE END TERMINATION HT CABLES HT Cable GROUP A: Supplying and laying of high tension 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE (E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed with specified IS 7098/11/85 with latest amendments & confirming to the GTP of GROUP-A 8.3.1) 3Cx95 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.225		Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) 7.9.2) In soil (hard) directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.226		LT CABLES Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 10 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.227		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 185 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.228		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 120 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.229		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 70 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.230		Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.231		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.232		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 25 sqmm to 75 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.233		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 95 sqmm to 150Sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

inage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
m	To										
m No.234		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 185sqmm to 240Sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
m No.235		END TERMINATION HT CABLE ENDTERMINATION Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations- OUTDOOR JOINTING KIT & confirming to the GTP. OUTDOOR 8.2.1) 3Cx95/120sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
m No.236		Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations- INDOOR JOINTING KIT & confirming to the GTP. INDOOR 8.2.5) 3Cx95/120sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
m No.237		LT CABLE END TERMINATION Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
em No.238		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)32mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
em No.239		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 50mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
em No.240		Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 75mm dia directions of the Engineer-In-charge of the work									
		Item Not Operated									
em No.241		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 16 sqmm directions of the Engineer-In-charge of the work									
		Item Not Operated									
tem No.242		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 25 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
tem No.243		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 70 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
tem No.244		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 120 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.245		Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 185 sqmm Long Barrel directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.246		CABLE TRAY Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts/nuts and washer or welding as required. 7.19.1) 150x50mm directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.247		Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. In soil (hard) directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.248		Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.C.C. cutting directions of the Engineer-In-charge of the work									
		Item Not Operated									
Item No.249		G. MISCELLANEOUS ITEMS Supplying and fixing of class A (medium duty) Gl pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 7.12.2) 50mm directions of the Engineer-In-charge of the work									
		Item Not Operated									

BRUHAT BANGALORE MAHANAGARA PALIKE

AME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

ge in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
No.250	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.1) 40x40x6mm directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.251	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables.7.20.10) 160mm OD / 135mm ID directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.252	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.253	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.254	Concealed Conduit System Supplying heavy gauge PVC conduit pipemm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.255	Supplying and installation of ABC Kgs capacity Fire Extinguishers for multipurpose (Solid, Liquid, Gas, Electrical) a) 5 Kgs directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.256	Supplying and installation of Dry Chemical powder.Kg capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) b) 5 Kgs directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.257	Supplying and installation of Mechanical Foam-9ltrs capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.258	Supplying and installing of CO2Kgs capacity Fire Extinguishers for multipurpose (Servers, Panels, Computers, etc.,) c) 4-5 Kgs directions of the Engineer-In-charge of the work directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.259	Supplying of Four Bucket stand along with Buckets directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.260	Supplying of Hand Gloves directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.261	Supplying and installation of RUBBER MAT 1mt x 2mt-100mm thick directions of the Engineer-In-charge of the work									
	Item Not Operated									
No.262	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 7.4.10) 3.5 core 120 sqmm									
	Item Not Operated									
m No.263	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 7.8.8) 95 sqmm to 150Sqmm									
	Item Not Operated									
m No.264	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) 7.9.2) In soil (hard)									
	Item Not Operated									

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
Item No.265		Supply and installation of Acoustic insulation using 50mm thick with 24Kg Density glass wool with 24G aluminum perforated sheet complete									
		Item Not Operated									
Item No.266		Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.65mm									
		Item Not Operated									
Item No.267		Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. 50mm									
		Item Not Operated									
Item No.268		B. EARTHING SYSTEM Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.									
		Item Not Operated									
Item No.269		Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip									
		Item Not Operated									
Item No.270		Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.25x6mm Copper strip									
		Item Not Operated									
Item No.271		Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip									
		Item Not Operated									
Item No.272		Supplying and running of GI strips for grounding connections, using necessary fixing materials as required.40x6mm GI strip									
		Item Not Operated									
Item No.273		Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG									
		Item Not Operated									
E1		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 300 to 350 m									
			Mtrs	2	50			100.00			
300	350	**Total Executed Quantity**						**100.00**	**653.41**	**65341.00**	
E2		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 350 to 400 m									
			Mtrs	1	47			47.00			
			Mtrs	1	50			50.00			
350	400	**Total Executed Quantity**						**97.00**	**691.23**	**67049.31**	
E3		Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 400 to 430 m									
			Mtrs	1	27			27.00			
400	450	**Total Executed Quantity**						**27.00**	**691.23**	**18663.21**	
E4		Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305.									
		pool	cum	1	30.60	18.60	1.00	569.16			
		Total Executed Quantity						**569.16**	**357.98**	**203750.69**	

BRUHAT BANGALORE MAHANAGARA PALIKE

ME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

r in m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
To										
	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring and strutting, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavation earth to the extent required including the cost of labour & HOM of machineries, as per drawing and technical specification.									
	Site area									
	Rectangle	cum	1	27.80	44.92	1.00	1248.69			
	triangle	cum	1	0.5*44.92*2.942			66.08			
	triangle	cum	1	0.5*27.8*1.693			23.53			
						Total Executed Quantity	**1338.30**	**67.19**	**89921.00**	
	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160 mm outer dia									
	160 mm pipes	m	1	36			36.00			
						Total Executed Quantity	**36.00**	**1053.65**	**37931.40**	
	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 200 mm outer dia									
	200 mm pipes	m	1	12			12.00			
						Total Executed Quantity	**12.00**	**1755.38**	**21064.56**	
	KSRB 4-6.8 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beams haunchings, cantilelver, girders, bressumers and lintels exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.17, I.No. 4.35 of PWD SR 2018-19)									
	Beams									
	B1(300 X 600)									
	Along Grid 10&9	Sqm	2.00	23.90		1.15	54.97			
	B4(300 X450)									
	Along Grid D between 10&9	Sqm	1.00	3.90		0.85	3.32			
	B3(200X 600)									
	Along Grid Fbetween 10&9	Sqm	1.00	3.50		1.05	3.68			
	SB(200 X 600)	Sqm	1.00	3.50		1.05	3.68			
	SB(200 X 600)	Sqm	1.00	3.50		1.20	4.20			
	B2(450 X 1400)									
	Along Grid 1 to 9	Sqm	8.00	23.90		2.90	554.48			
	Along Grid 1 to 9 (beam Side Shuttering)	Sqm	16.00	0.45		0.80	5.76			
	B3(200X 600)									
	Along Grid A & F	Sqm	2.00	4.00		1.05	8.40			
		Sqm	14.00	4.05		1.05	59.54			
	B4(300 X450)									
	Along Grid B & E									
		Sqm	2.00	4.00		0.85	6.80			
		Sqm	12.00	4.05		0.85	41.31			
	Through Lintel									
	Northenside outer Wall	Sqm	2	16.05		0.30	9.63			
	Middle portion wall	Sqm	2	16.05		0.30	9.63			
	Offiice	Sqm	4	3.70		0.30	4.44			

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NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Ladies Changing Room	Sqm	4	3.70		0.30	4.44			
		Second Floor Roof Beam									
		B4(300X300)	Sqm	2	3.50		0.15	1.05			
		B8(200X600)	Sqm	2	3.50		0.45	3.15			
		B9(200X600)	Sqm	4	3.50		0.45	6.30			
		B10(300X600)	Sqm	4	22.10		0.45	39.78			
		B11(450X1350)	Sqm	2	22.70		1.20	54.48			
		B12(200X450)	Sqm	4	32.30		0.30	38.76			
		Gutter Beam	Sqm								
		Easternside and Westernside	Sqm	4	36.40		0.45	65.52			
			Sqm	4	36.40		0.30	43.68			
		B14(200X300)	Sqm	4	3.50		0.15	2.10			
		B13(300X600)	Sqm	4	22.10		0.60	53.04			
							Total Executed Quantity	**1053.98**	**567.82**	**598470.92**	
E9		KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 9 mtrs.Specification No. KBS 4.6.2 (P.No.16, I.No. 4.29.6 of PWD SR 2018-19)									
		Roof Slab	Sqm	1	40.00	23.90		956.00			
		Bottom	Sqm	1	40.00		0.18	7.00			
		Side	Sqm	1	35.90		0.18	6.28			
		Side	Sqm	1		23.90	0.18	4.18			
		Side	Sqm	1		17.30	0.18	3.03			
		Side	Sqm	1	3.70		0.18	0.65			
		Stair case		1	6.60		0.18	1.16			
			Sqm								
		Deduction	Sqm	1	6.60	3.70		-24.42			
		Staircase									
		Second Floor									
		Badmiton Court Side Slab Projection	Sqm	2	36.20	1.80		130.32			
		Changing Room and entry lobby	Sqm	1	17.20	4.10		70.52			
		Slab Edge									
		Badmiton Court Side Slab Projection	Sqm	2	76.00		0.15	22.80			
		Changing Room and entry lobby	Sqm	1	42.60		0.15	6.39			
		near Gutter level Slab projection	Sqm	2	4.10	1.06		8.69			
		Slab Edge	Sqm	2	6.22		0.15	1.87			
							Total Executed Quantity	**1194.46**	**1288.75**	**1539358.98**	
E10		KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2(P.No.17, I.No. 4.38. of PWD SR 2018-19)									
		Staircase		2	5.43	1.60		17.38			
		Waist slab bottom	Sqm	4	5.43		0.35	7.60			
		Waist slab side faces	Sqm	1	3.50	1.50		5.25			
		Landing bottom	Sqm	2	1.50		0.20	0.60			
		Landing side faces	Sqm	33		1.60	0.15	7.92			
		rises	Sqm	1	10.60	4.10		43.46			
		Balancing tank roof	Sqm	1	29.40		0.15	4.41			
		Side	Sqm								
		Deduction		1	0.60	0.60		-0.36			
		opening	Sqm	1	2.40	0.15		-0.36			
		Side	Sqm								

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
From	To										
		Ladies Changing Room	Sqm	4	3.70		0.30	4.44			
		Second Floor Roof Beam									
		B4(300X300)	Sqm	2	3.50		0.15	1.05			
		B8(200X600)	Sqm	2	3.50		0.45	3.15			
		B9(200X600)	Sqm	4	3.50		0.45	6.30			
		B10(300X600)	Sqm	4	22.10		0.45	39.78			
		B11(450X1350)	Sqm	2	22.70		1.20	54.48			
		B12(200X450)	Sqm	4	32.30		0.30	38.76			
		Gutter Beam	Sqm								
		Easternside and Westernside	Sqm	4	36.40		0.45	65.52			
			Sqm	4	36.40		0.30	43.68			
		B14(200X300)	Sqm	4	3.50		0.15	2.10			
		B13(300X600)	Sqm	4	22.10		0.60	53.04			
							Total Executed Quantity	**1053.98**	**567.82**	**598470.92**	
E9		KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 9 mtrs.Specification No. KBS 4.6.2 (P.No.16, I.No. 4.29.6 of PWD SR 2018-19)									
		Roof Slab									
		Bottom	Sqm	1	40.00	23.90		956.00			
		Side	Sqm	1	40.00		0.18	7.00			
		Side	Sqm	1	35.90		0.18	6.28			
		Side	Sqm	1		23.90	0.18	4.18			
		Side	Sqm	1		17.30	0.18	3.03			
		Stair case	Sqm	1	3.70		0.18	0.65			
				1	6.60		0.18	1.16			
		Deduction	Sqm								
		Staircase	Sqm	1	6.60	3.70		-24.42			
		Second Floor									
		Badmiton Court Side Slab Projection	Sqm	2	36.20	1.80		130.32			
		Changing Room and entry lobby	Sqm	1	17.20	4.10		70.52			
		Slab Edge									
		Badmiton Court Side Slab Projection	Sqm	2	76.00		0.15	22.80			
		Changing Room and entry lobby	Sqm	1	42.60		0.15	6.39			
		near Gutter level Slab projection	Sqm	2	4.10	1.06		8.69			
		Slab Edge	Sqm	2	6.22		0.15	1.87			
							Total Executed Quantity	**1194.46**	**1288.75**	**1539358.98**	
E10		KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2(P.No.17, I.No. 4.38. of PWD SR 2018-19)									
		Staircase									
		Waist slab bottom	Sqm	2	5.43	1.60		17.38			
		Waist slab side faces	Sqm	4	5.43		0.35	7.60			
		Landing bottom	Sqm	1	3.50	1.50		5.25			
		Landing side faces	Sqm	2	1.50		0.20	0.60			
						1.60	0.15	7.92			
		rises	Sqm	33		4.10		43.46			
		Balancing tank roof	Sqm	1	10.60		0.15	4.41			
		Side	Sqm	1	29.40						
		Deduction						-0.36			
		opening	Sqm	1	0.60	0.60		-0.36			
		Side	Sqm	1	2.40	0.15					

BRUHAT BANGALORE MAHANAGARA PALIKE

E OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

: in m To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
	Steps in entry lounge									
	Sides	Sqm	5	1.8	0.15		1.35			
		Sqm	2	1.7	0.15		0.51			
						Total Executed Quantity	87.76	572.78	50265.66	
	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications (Ground Floor)									
	Ground Floor									
	ladies Changing Room									
	Bath	Sqm	3	2.50		2.46	18.45			
	WC	Sqm	3	2.50		2.46	18.45			
	Gents Changing Room									
	Bath	Sqm	3	2.50		2.46	18.45			
	WC	Sqm	2	2.50		2.46	12.30			
	near Urinals	Sqm	1	1.30		2.46	3.20			
		Sqm	1	1.16		2.46	2.85			
	Deduction									
	D2	Sqm	11	0.75		-2.10	-17.33			
	Near Ticket Counter	Sqm	1	3.60		0.90	3.24			
			Triangular area=0.5*3.6*1.8							
		Sqm	1	1.45		1.50	2.18			
						Total Executed Quantity	61.79	893.31	55199.05	
	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Second Floor)									
	Ladies Changing Room									
	WC	Sqm	1	1.30		2.10	2.73			
		Sqm	1	1.20		2.10	2.52			
	Gents Changing Room									
	WC	Sqm	1	1.30		2.10	2.73			
		Sqm	1	1.20		2.10	2.52			
	Terrace Floor									
	North side wall	Sqm	1	5.80		1.00	5.80			
		Sqm	1	10.21		1.00	10.21			
	South Side Wall	Sqm	1	4.57		0.63	2.88			
		Sqm	1	10.21		0.63	6.43			
	East Side Wall	Sqm	1	3.42		1.00	3.42			
	West Side Wall	Sqm	1	1.90		1.00	1.90			
						Total Executed Quantity	41.14	970.41	39924.21	
	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications ,. (Ground Floor)									
	Shower area	Sqm	1	10.90		3.70	40.33			
	Wall top	Sqm	1	10.90	0.20		2.18			
	Near Shower area ladies Changing Room outer Wall	Sqm	1	3.60		3.70	13.32			
		Sqm	1	1.13		2.40	2.71			
		Sqm	1	0.20		2.40	0.48			
		Sqm	1	1.57		2.40	3.77			
		Sqm	1	1.35		2.40	3.24			
	Wall top	Sqm	1	1.13	0.20		0.23			
		Sqm	1	0.20	0.20		0.04			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
From	To				(m)	(m)	(m)		Rs	Rs	
			Sqm	1	1.57	0.20		0.31			
			Sqm	1	1.35	0.20		0.27			
		Near Shower area Gents Changing Room outer Wall	Sqm	1	3.50		3.70	12.95			
			Sqm	1	1.07		2.40	2.57			
			Sqm	1	1.33		2.40	3.19			
			Sqm	1	0.20		2.40	0.48			
			Sqm	1	1.53		2.40	3.67			
			Sqm	1	1.35		2.40	3.24			
		Wall top	Sqm	1	1.33	0.20		0.27			
			Sqm	1	0.20	0.20		0.04			
			Sqm	1	1.53	0.20		0.31			
			Sqm	1	1.35	0.20		0.27			
		Deduction									
		ED	Sqm	1X0.5	0.90		-2.10	-0.95			
		D1	Sqm	2X0.5	0.90		-2.10	-1.89			
		Ladies Changing Room	Sqm	2	3.60		2.21	15.91			
			Sqm	2	9.00		2.21	39.78			
		Bath	Sqm	3	4.80		2.21	31.82			
		WC	Sqm	3	4.80		2.21	31.82			
		Gents Changing Room	Sqm	2	3.50		2.21	15.47			
			Sqm	2	9.10		2.21	40.22			
		Bath	Sqm	3	4.80		2.21	31.82			
		WC	Sqm	2	4.80		2.21	21.22			
		Wall near Urinals	Sqm	2	1.16		2.21	5.13			
		Deduction									
		D2	Sqm	22X0.5	0.75		-2.10	-17.33			
		D1	sqm	2X0.5	0.90		-2.10	-1.89			
		Ground Floor									
		Compound Wall									
		West Side									
		Wall	Sqm	1	26.75		3.51	93.89			
			Sqm	1	8.53		2.90	24.74			
		Horizontal	Sqm	1	26.75	0.11		2.94			
		pillars Side	Sqm	10	0.18		3.51	6.32			
			Sqm	2	0.18		2.90	1.04			
		East Side	Sqm	1	35.07		3.73	130.81			
		pillars Side	Sqm	22	0.25		3.73	20.52			
		Horizontal	Sqm	1	35.07	0.10		3.51			
			Sqm	1	23.33	0.10		2.33			
		vertical	Sqm	1	0.10	0.13		0.01			
			Sqm	1	0.36	0.12		0.04			
			Sqm	1	0.33	0.10		0.03			
		Baby Swimming Pool									
		East Side	Sqm	1	8.76		0.60	5.26			
			Sqm	1	4.20	0.22		0.92			
		East Side Stage	Sqm	1	4.20	0.30		1.26			
			Sqm	1	0.30	0.22		0.07			
		North Side	Sqm	1	2.94		0.60	1.76			
		Deduction									
		West side pillars	Sqm	-5	0.22	0.11		-0.12			
		East side pillars	Sqm	-11	0.38	0.10		-0.42			
		East side Door	Sqm	-1	0.86		1.92	-1.65			
		Pillars Bottom	Sqm	-7	0.10	0.38		-0.27			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

Page in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
	To										
		Baby Swimming Pool Wall	Sqm	-1	4.20		0.30	-1.26			
			Sqm	-1	0.24		0.50	-0.12			
							Total Executed Quantity	**596.64**	**225.81**	**134723.97**	
E14		Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications .. Second Floor									
		Second Floor									
		Gents Changing Room	Sqm	2	3.70		2.10	15.54			
			Sqm	2	3.30		2.10	13.86			
		WC	Sqm	1	3.60		2.10	7.56			
			Sqm	2	2.60		2.10	10.92			
		Ladies Changing Room	Sqm	2	3.70		2.10	15.54			
			Sqm	2	3.30		2.10	13.86			
			Sqm	1	3.60		2.10	7.56			
			Sqm	2	2.60		2.10	10.92			
		Deduction									
		D1	Sqm	2X0.5	0.90		-2.10	-1.89			
		D2	Sqm	4X0.5	0.75		-2.10	-3.15			
							Total Executed Quantity	**90.72**	**239.02**	**21684.24**	
E15		Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.(Ground Floor)									
		Ground Floor									
		W	Kgs	1			17.01	17.01			
					21kg per sqm 0.9*0.9*21=17.01						
		Changing Room									
		ladies Changing Room									
		V	Kgs	9			9.45	85.05			
					21kg per sqm 0.75*0.6*21=9.45						
		Gents Changing Room									
		V	Kgs	8			9.45	75.60			
					21kg per sqm 0.75*0.6*21=9.45						
		Balancing Tank Room									
		V	Kgs	5			9.45	47.25			
					21kg per sqm 0.75*0.6*21=9.45						
		Ground Floor									
		Chambers west Side	Sqm	4	1.00	0.60		2.40			
							Total Executed Quantity	**227.31**	**104.64**	**23786.11**	
E16		Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. (Second Floor)									
		Second Floor									
		W1	Kgs	3			30.24	90.72			
					21kg per sqm 1.2*1.2*21=30.24						
		W2	Kgs	4			65.21	260.82			
					21kg per sqm 1.5*2.07*21=65.21						
		ladies Changing Room									
		V	Kgs	2			9.45	18.90			
					21kg per sqm 0.75*0.6*21=9.45						
		Gents Changing Room									
		V	Kgs	2			9.45	18.90			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

ainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount	Remarks
om	To				(m)	(m)	(m)		Rs	Rs	
					21kg per sqm						
					0.75*0.6*21=9.45						
							Total Executed Quantity	**389.34**	**117.86**	**45887.47**	
	E17	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Ground Floor)									
		Ground Floor									
		Shower area	Sqm	1	10.90		3.70	40.33			
		Wall top	Sqm	1	10.90	0.20		2.18			
		Near Shower area ladies Changing Room outer Wall	Sqm	1	3.60		3.70	13.32			
			Sqm	1	1.13		2.40	2.71			
			Sqm	1	0.20		2.40	0.48			
			Sqm	1	1.57		2.40	3.77			
			Sqm	1	1.35		2.40	3.24			
		Wall top	Sqm	1	1.13	0.20		0.23			
			Sqm	1	0.20	0.20		0.04			
			Sqm	1	1.57	0.20		0.31			
			Sqm	1	1.35	0.20		0.27			
		Near Shower area Gents Changing Room outer Wall	Sqm	1	3.50		3.70	12.95			
			Sqm	1	1.07		2.40	2.57			
			Sqm	1	1.33		2.40	3.19			
			Sqm	1	0.20		2.40	0.48			
			Sqm	1	1.53		2.40	3.67			
			Sqm	1	1.35		2.40	3.24			
		Wall top	Sqm	1	1.33	0.20		0.27			
			Sqm	1	0.20	0.20		0.04			
			Sqm	1	1.53	0.20		0.31			
			Sqm	1	1.35	0.20		0.27			
		Deduction									
		ED	Sqm	1X0.5	0.90		-2.10	-0.95			
		D1	Sqm	2X0.5	0.90		-2.10	-1.89			
		Ladies Changing Room	Sqm	2	3.60		2.21	15.91			
			Sqm	2	9.00		2.21	39.78			
		Bath	Sqm	3	4.80		2.21	31.82			
		WC	Sqm	3	4.80		2.21	31.82			
		Gents Changing Room	Sqm	2	3.50		2.21	15.47			
			Sqm	2	9.10		2.21	40.22			
		Bath	Sqm	3	4.80		2.21	31.82			
		WC	Sqm	2	4.80		2.21	21.22			
		Wall near Urinals	Sqm	2	1.16		2.21	5.13			
		Deduction									
		D2	Sqm	22X0.5	0.75		-2.10	-17.33			
		D1	sqm	2X0.5	0.90		-2.00	-1.80			
		Ground Floor									
		Compound Wall									
		West Side									
		Wall	Sqm	1.00	26.75		3.51	93.89			
			Sqm	1.00	8.53		2.90	24.74			
		Horizontal	Sqm	1.00	26.75	0.11		2.94			
		pillars Side	Sqm	10.00	0.18		3.51	6.32			
			Sqm	2.00	0.18		2.90	1.04			
		East Side	Sqm	1.00	35.07		3.73	130.81			
		pillars Side	Sqm	22.00	0.25		3.73	20.52			
		Horizontal	Sqm	1.00	35.07	0.10		3.51			
			Sqm	1.00	23.33	0.10		2.33			
		vertical	Sqm	1.00	0.10	0.13		0.01			
			Sqm	1.00	0.36	0.12		0.04			

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
			Sqm	1.00	0.33	0.10		0.03			
		Baby Swimming Pool									
		East Side	Sqm	1.00	8.76		0.60	5.26			
			Sqm	1.00	4.20	0.22		0.92			
		East Side Stage	Sqm	1.00	4.20	0.30		1.26			
			Sqm	1.00	0.30	0.22		0.07			
		North Side	Sqm	1.00	2.94		0.60	1.76			
		Deduction									
		West side pillars	Sqm	-5.00	0.22	0.11		-0.12			
		East side pillars	Sqm	-11.00	0.38	0.10		-0.42			
		East side Door	Sqm	-1.00	0.86		1.92	-1.65			
		Pillars Bottom	Sqm	-7.00	0.10	0.38		-0.27			
		Baby Swimming Pool Wall	Sqm	-1.00	4.20		0.30	-1.26			
			Sqm	-1.00	0.24		0.50	-0.12			
							Total Executed Quantity	**596.73**	**1797.63**	**1072696.05**	
E18		Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Second Floor)									
		Second Floor									
		Gents Changing Room	Sqm	2	3.70		2.10	15.54			
			Sqm	2	3.30		2.10	13.86			
		WC	Sqm	1	3.60		2.10	7.56			
			Sqm	2	2.60		2.10	10.92			
		Ladies Changing Room	Sqm	2	3.70		2.10	15.54			
			Sqm	2	3.30		2.10	13.86			
			Sqm	1	3.60		2.10	7.56			
			Sqm	2	2.60		2.10	10.92			
		Deduction									
		D1	Sqm	2X0.5	0.90		-2.10	-1.89			
		D2	Sqm	4X0.5	0.75		-2.10	-3.15			
							Total Executed Quantity	**90.72**	**1802.04**	**163481.15**	
E19		Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm									
		Drain									
		Easternside									
		Bottom Slab									
00	30.00		Cum	1	30.00	0.66	0.15	2.97			
00	35.70		Cum	1	5.70	0.66	0.15	0.56			
		Side Walls									
		LHS									
00	30.00		Cum	1	30.00	0.25	0.35	2.63			
00	35.70		Cum	1	5.70	0.25	0.30	0.43			
		RHS	Cum								
00	30.00		Cum	1	30.00	0.11	0.35	1.16			
00	35.70		Cum	1	5.70	0.11	0.30	0.19			
		East Side (Road Side)									
		Near Chain Link fencing	Cum	1	1.70	0.30	0.15	0.08			
			Cum	1	7.50	0.30	0.15	0.34			
		Approach Concrete	Cum	1	30.00	0.24	0.15	1.08			
		Near Filtration Room	Cum	1	2.60	0.25	0.15	0.10			
		Entrance Near Doors									

BRUHAT BANGALORE MAHANAGARA PALIKE

OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

m	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
	Outside Stage	Cum	1	5.25	0.74	0.20	0.78			
	Ticket Counter									
	Stage	Cum	1	1.09	0.49	0.20	0.11			
	Near Baby Swimming Pool									
	East Side Stage	Cum	1	4.20	0.30	0.30	0.38			
						Total Executed Quantity	**10.78**	**7346.95**	**79223.80**	

Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200

For Drain	tonne			From Calculation Sheet		0.92			
						Total Executed Quantity	**0.92**	**67593.06**	**62097.12**

Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m.

RS	Sqm	1	3.10	3.00		9.30			
						Total Executed Quantity	**9.30**	**2871.59**	**26705.78**

Providing and fixing factory made Galvanized plain steel door frame of profile size 125x60 mm single rebate manufactured from galvanized plain steel sheet 1.25mm thick, confirming to IS:277. The door frame consists of hinge jamb, lock jamb, head and bottom tie bars, supply in knockdown condition & to be assembeled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60mm thick pressed angle 20 x 20mm screwed to the door frame. The stiffness of 3mm thick MS GATE & pre-trapped are to be welded inside the pre-punched alots of the door frames & 4 nos. of S.S.butt hinges 100 x 59 2.5mm to be screwed to the door frame. The stiffeners & mortor guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. Size 1000 x 2130 mm

D	Rmt	2	5.80			11.60			
						Total Executed Quantity	**11.60**	**600.31**	**6963.63**

Providing and fixing factory made Galvanized plain steel door shutters 32mm thick manufactured from pre painted galvanized plain steel sheet 0.60mm thick confirming to the IS:14246. The door shutters consists of two outer skins if steel sheets , lock seam jointed at vertical stile edges, horizontal top and bottom sides to form a double skin fully flush shell. Rigid polyyurethane Foam (PUF) of density 40 kg/m3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60mm to be provided for fixing all hardware fixtures. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. Size 900 x 2035 x 32 mm

D	Sqm	2	0.90		2.00	3.60			
						Total Executed Quantity	**3.60**	**600.31**	**2161.13**

Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 20mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.)160mm dia Pipe

	Sqm								
Pipe Line						35.70			
Westernside	m	1	35.70						
Deduction						-3.60			
for Chamber	m	4	-0.90			29.50			
Southernside	m	1	29.50						
						Total Executed Quantity	**61.60**	**600.31**	**36979.29**

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.97

MODIFIED ESTIMATE

ainage in m		Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
om	To										
E25		Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface. including all labour charges tools and equipments, all complete as per the specification									
		Ground Floor									
		Pool									
		Pool bottom	Sqm	1	30.00	18.00		540.00			
		pool side walls	Sqm	2	10.00		2.00	40.00			
			Sqm	2	10.00		1.00	20.00			
			Sqm	Triangular area=0.5*10*2							
			Sqm	2	10.00		0.90	18.00			
			Sqm	1	18.00		0.90	16.20			
			Sqm	1	18.00		2.00	36.00			
		Baby Pool									
		Inside plastering									
		Base Slab	Sqm	1	4.90	2.40		11.76			
		Side Walls	Sqm	2	4.90		0.57	5.59			
			Sqm	2	2.40		0.57	2.74			
		Deduction									
			Sqm	1	0.30		-0.30	-0.09			
		Changing Room									
		Ladies Changing Room									
		Bath Room	Sqm	3	1.20	1.20		4.32			
		WC	Sqm	3	1.20	1.20		4.32			
			Sqm	1	3.90	1.00		3.90			
			Sqm	1	6.60	3.60		23.76			
		Gents Changing Room									
		Bath room	Sqm	3	1.20	1.20		4.32			
		WC	Sqm	2	1.20	1.20		2.88			
			Sqm	1	3.50	5.00		17.50			
			Sqm	1	3.90	1.00		3.90			
			Sqm	1	1.80	1.30		2.34			
		Second Floor									
		Ladies Changing Room									
		WC	Sqm	1	1.20	1.20		1.44			
			Sqm	1	3.30	2.15		7.10			
			Sqm	1	1.88	1.35		2.54			
		Gents Changing Room									
		WC	Sqm	1	1.20	1.20		1.44			
			Sqm	1	3.30	2.15		7.10			
			Sqm	1	1.88	1.35		2.54			
							Total Executed Quantity	**779.58**	**579.38**	**451675.64**	
26		KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2, Pg No 16, Item No 4.32									
		Second Floor									
		Column									
		C1									
		Along Grid B	Sqm	8	2.10		7.60	127.68			
		Along Grid E	Sqm	8	2.10		7.60	127.68			
		C2									
		Along Grid C -10	Sqm	1	1.50		7.60	11.40			
		Along Grid C -9	Sqm	1	1.50		7.60	11.40			
		C3									
		Along Grid D-10	Sqm	1	1.50		7.60	11.40			
		Grid A-9	Sqm	2	1.50		7.60	22.80			
		C4									

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
		Along Grid 10	Sqm	2	1.50		7.60	22.80			
		Grid F	Sqm	1	1.50		7.60	11.40			
							Total Executed Quantity	346.56	711.56	246599.56	
E27		Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved qualitycomplete as per specifications and directions of the Engineer in charge (Pg No.35 It No 7.11.2 SR 2018-19)									
		Ground Floor									
		Office	Sqm	1	2.35		1.30	3.06			
			Sqm	1	2.30		1.30	2.99			
		Ticket Counter	Sqm	1	0.90		0.89	0.80			
		Alumunium Louvers									
		Above Filtration tank									
		North Side	Sqm	1	3.47		2.00	6.94			
			Sqm	1	5.85		2.00	11.70			
		East Side	Sqm	1	3.48		2.00	6.96			
							Total Executed Quantity	32.45	4885.12	158503.00	
E28		KSRB13-6.7 : Providing and fixing in position chromium plated brass shower rose with 15 or 20mm inlet including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS 13.2.16 / 13.3 KSRB13-6.7-2 - do - 150 mm dia (Page no 95, It No 13.51, SR 2018-19)									
		Ground Floor	Each	14				14.00			
							Total Executed Quantity	14.00	826.12	11566.00	
E29		Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications and directions of the Engineer in charge									
		Ground Floor						2.00			
		Entrance	Nos	2				1.00			
		Ticket counter	Nos	1							
							Total Executed Quantity	3.00	1504.64	4514.00	
E30		Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications and directions of the Engineer in charge.									
		Ground Floor						0.27			
		Entrance	Cum	2	7.44	0.20	0.09	0.07			
		Extra Piece	Cum	12	0.79	0.07	0.11	0.05			
		Ticket counter	Cum	1	5.78	0.07	0.12				
							Total Executed Quantity	0.38	96495.11	36736.00	
E31		Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries (excluding cost of fixtures) complete as per specifications and directions of the Engineer in charge.									
		Ground Floor						6.55			
		Entrance	Sqm	4	0.84		1.95	1.56			
		Ticket Counter	Sqm	1	0.78		2.00				
							Total Executed Quantity	8.11	5201.25	42193.00	

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.07

MODIFIED ESTIMATE

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
E32		Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and directions of the Engineer in charge									
		Painting for wood shutter									
		Ground Floor									
		Entrance	Sqm	8	0.84		1.95	13.10			
		Ticket Counter	Sqm	2	0.78		2.00	3.12			
		Second Floor									
		Badminton Main Door	Sqm	4	0.90		2.10	7.56			
		Office Room	Sqm	2	0.80		2.10	3.36			
		Gents change Room	Sqm	2	0.76		2.00	3.04			
		Ladies Change Room	Sqm	2	0.76		2.00	3.04			
		Painting for wood frame									
		Ground Floor									
		Entrance	Sqm	2	7.44	0.38		5.65			
		Extra Piece	Sqm	12	0.79	0.25		2.37			
		Ticket counter	Sqm	1	5.78	0.25		1.45			
		Second Floor									
		Badminton Main Door	Sqm	1	7.89	0.29		2.29			
		Office Room	Sqm	1	6.02	0.25		1.51			
		Gents change Room	Sqm	1	4.90	0.25		1.23			
		Ladies Change Room	Sqm	1	4.90	0.25		1.23			
							Total Executed Quantity	**48.94**	**106.84**	**5229.00**	
E33		Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.									
		Chain link fencing									
		East	Sqm	1	0.92		2.13	1.96			
		West	Sqm	1	1.84		2.13	3.92			
		North	Sqm	1	1.88		2.13	4.00			
		South	Sqm	1	2.07		2.13	4.41			
							Total Executed Quantity	**14.29**	**787.57**	**11256.00**	
E34		KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6									
		Second Floor-Badminton Court									
0	30	East Side	Cum	1	30.00	1.89	0.075	4.25			
30	35.77		Cum	1	5.77	1.89	0.075	0.82			
0	30	West Side	Cum	1	30.00	1.95	0.075	4.39			
30	35.77		Cum	1	5.77	1.95	0.075	0.84			
							Total Executed Quantity	**10.30**	**6622.17**	**68220.00**	
									Subtotal	**66462414.00**	
									Applicable GST	**3365994.00**	
									BESCOM Charges including GST as per Receipt No. 177904989369	**191200.00**	
									BESCOM Charges including GST as per Receipt No. 177904949620	**52885.00**	
									Total Amount	**70072493.00**	

Technical Sanction
Accorded For Rs 70072493
Head of A/C 01732
CER NO : 47 Dt: 10/24

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Modified Schedule- B

BBMP/2017-18/OW/WORK_INDENT28222

Construction of Swimming pool At Amrutha Nagara, Byatarayanapura Ward No.07

SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification . Quantity upto125%	cum	3616.00	305.64	Rupees Three Hundred Five and Sixty Four Paise Only
	Quantity above 125%		1228.43	305.64	Rupees Three Hundred Five and Sixty Four Paise Only
2	Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement)	sqm	0.00	0.00	Zero
3	Providing sand cement bed with 5% cement with all cum leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications.	cum	458.71	3349.08	Rupees Three Thousand Three Hundred Forty Nine and Eight Paise Only
4	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications. Quantity upto125%	cum	336.40	137.16	Rupees One Hundred Thirty Seven and Sixteen Paise Only
	Quantity above 125%		1273.91	137.16	Rupees One Hundred Thirty Seven and Sixteen Paise Only
5	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed. Quantity upto125%	cum	3279.68	108.00	Rupees One Hundred Eight Only
	Quantity above 125%		1129.76	110.15	Rupees One Hundred Ten and Fifteen Paise Only
6	Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification. Quantity upto125%	cum	359.03	2283.12	Rupees Two Thousand Two Hundred Eighty Three and Twelve Paise Only
	Quantity above 125%		125.82	2283.12	Rupees Two Thousand Two Hundred Eighty Three and Twelve Paise Only
7	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications. Quantity upto125%	cum	307.46	5449.68	Rupees Five Thousand Four Hundred Forty Nine and Sixty Eight Paise Only
	Quantity above 125%		262.85	5449.68	Rupees Five Thousand Four Hundred Forty Nine and Sixty Eight Paise

Executive Engineer
Project Division
Yelahanka Zone

Contractor

Sl. NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixedf concrete for R.C.C works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc. complete(exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25(for Side Walls and Bottom)	Cum	1253.12	7500.00	Rupees Seven Thousand Five Hundred Only
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Quantity upto125%	Sqm	1020.90	414.72	Rupees Four Hundred Fourteen and Seventy Two Paise Only
	Quantity above 125%		63.13	322.74	Rupees Three Hundred Twenty Two and Seventy Three Paise Only
10	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick. cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of **size 30 x 30 cms 6mm thick**	sqm	810.84	1230.08	Rupees One Thousand Two Hundred Thirty and Eight Paise Only
11	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.Quantity upto125%	sqm	41.25	6638.76	Rupees Six Thousand Six Hundred Thirty Eight and Seventy Six Paise Only
	Quantity above 125%		0.98	6632.08	Rupees Six Thousand Six Hundred Thirty Two and Eight Paise Only
12	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as eper spec ifications and Extra for providing and mixing Waterproofing compound in cement plaster work at one kg per bag or in the proportion recomended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.Quantity upto 125%	sqm	989.01	293.76	Rupees Two Hundred Ninety Three and Seventy Six Paise Only
13	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500. Quantity upto125%	tonne	193.98	76329.00	Rupees Seventy Six Thousand Three Hundred Twenty Nine Only
	Quantity Above 125%	tonne	2.85	66758.13	Rupees Sixty Six Thousand Seven Hundred Fifty Eight and Twelve Paise Only

Contractor

Executive Enginee
Project Divisio
Yelahanka Zon

Sl No	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
14	Providing and laying fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing cpmplete as per specification.	sqm	342.42	1171.80	Rupees One Thousand One Hundred Seventy One and Eighty Paise Only
15	Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size **40x20x20cms** confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.	sqm	1327.19	1011.96	Rupees One Thousand Eleven and Ninety Six Paise Only
16	Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. Quantity upto 125%	cum	95.85	4359.96	Rupees Four Thousand Three Hundred Fifty Nine and Ninety Six Paise Only
	Quantity Above 125%		81.88	4359.96	Rupees Four Thousand Three Hundred Fifty Nine and Ninety Six Paise Only
17	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	435.48	395.28	Rupees Three Hundred Ninety Five and Twenty Eight Paise Only
18	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of **beams**, beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.	sqm	264.76	365.04	Rupees Three Hundred Sixty Five and Four Paise Only
19	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50m from Ground level	sqm	110.82	961.02	Rupees Nine Hundred Sixty One and Two Paise Only
20	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For **Outside Plastering**	sqm	1800.71	277.56	Rupees Two Hundred Seventy Seven and Fifty Six Paise Only
21	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications **Internal wall platering**	sqm	1247.57	306.72	Rupees Three Hundred Six and Seventy Two Paise Only
22	Providing and laying Hassan Green **Granite flooring for Staircase,** treads and rises using pre polished 20mm thick water cut green Granite Slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 lline grooves not more than 2mm wide for antiskidding, curing etc., complete.	sqm	0.00	0.00	Zero

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SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
23	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of **size 30 x 30 cms 6mm thick**	sqm	32.61	1270.08	Rupees One Thousand Two Hundred Seventy and Eight Paise Only
24	Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)	sqm	1308.26	160.00	Rupees One Hundred Sixty Only
25	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications	sqm	4607.50	60.48	Rupees Sixty and Forty Eight Paise Only
26	Providing and applying painting in two coats with **plastic Emulsion paint** of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge.**with primer**	sqm	2880.15	97.20	Rupees Ninety Seven and Twenty Paise Only
27	Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,labour, curing complete as per specifications.Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3 12mm thick cost of materials complete as per specifications.Quantity upto125%	sqm	1723.20	208.44	Rupees Two Hundred Eight and Forty Four Paise Only
	Quantity Above 125%		57.41	208.44	Rupees Two Hundred Eight and Forty Four Paise Only
28	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.30, I. 9.4) PRED.SR 2012-13**	Each	2.00	1900.00	Rupees One Thousand Nine Hundred Only
29	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) **0 to 50m**	m	100.00	306.00	Rupees Three Hundred Six Only

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SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K.Somappa	
				In Figure	In Words
30	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) **50 to 100m**	m	100.00	400.00	Rupees Four Hundred Only
31	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) **100 to 150m**	m	100.00	445.00	Rupees Four Hundred Forty Five Only
32	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) **150 to 200m**	m	100.00	470.00	Rupees Four Hundred Seventy Only
33	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) **200 to 250 m**	m	100.00	544.00	Rupees Five Hundred Forty Four Only
34	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) **250 to 300 m**	m	100.00	583.00	Rupees Five Hundred Eighty Three Only
35	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 : 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 : 1985, one end fitted with a socket and the other end with a plastic protection end (including of all taxes) **as per corragandam**	m	140.00	1325.00	Rupees One Thousand Three Hundred Twenty Five Only
36	Providing 250mm dia PVC Pipe 6kg cm as per specification and direction of the Engineer in Charge of the work	m	65.00	754.47	Rupees Seven Hundred Fifty Four and Forty Seven Paise Only
37	Providing and fixing 175mm Borewell Cap	Nos	2.00	150.00	Rupees One Hundred Fifty Only

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Sl. NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
38	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by meansns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 40 stage.	Nos	2.00	44000.00	Rupees Forty Four Thousand Only
39	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threafles at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. **50 mm dia including Collar Heavy Class**	m	700.00	415.00	Rupees Four Hundred Fifteen Only
40	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 **Sqm mm of 36 strands 0.3mm dia Group -**	m	1400.00	151.00	Rupees One Hundred Fifty One Only
41	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost)	Nos	2.00	3000.00	Rupees Three Thousand Only
42	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,	Nos	1.00	285.00	Rupees Two Hundred Eighty Five Only
43	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/ I No. 10(d) **4 core 16 Sqmm KPWD Electrical SR 2007-08**	m	45.00	150.00	Rupees One Hundred Fifty Only
44	Labour charges for laying of 1.1 K.V class UG cable	m	45.00	8.00	Rupees Eight Only
45	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR	Rmtr	45.00	60.00	Rupees Sixty Only
46	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class	Rmtr	6.00	240.00	Rupees Two Hundred Forty Only

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SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
47	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia,	Rmtr	4.00	1950.00	Rupees One Thousand Nine Hundred Fifty Only
48	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete...	Nos	6.00	120.00	Rupees One Hundred Twenty Only
49	Providing and fixing in position **50mm** nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Nos	2.00	1114.00	Rupees One Thousand One Hundred Fourteen Only
50	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. No. 13.81.3 **PWD SR 2007-08**	Nos	2.00	201.40	Rupees Two Hundred One and Forty Paise Only
51	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete	Nos	2.00	80.00	Rupees Eighty Only
52	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	Nos	2.00	350.00	Rupees Three Hundred Fifty Only
53	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	Nos	2.00	1000.00	Rupees One Thousand Only
54	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **15HP to 30 HP Star Delta Starter**	Nos	2.00	65700.00	Rupees Sixty Five Thousand Seven Hundred Only
55	Providing and instalation at site of works **P.V.C.Pipes** including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,	m	0.00	0.00	Zero
56	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Nos	4.00	2781.00	Rupees Two Thousand Seven Hundred Eighty One Only

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SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
57	Providing and laying wooden floor for batmitun court & Gym room using 50x75mm Runners at the intervals of 0.45 both ways using mathi/sal wood with nailing properly fixing to existing roof concrete and above the Runners the planks of teakwood using tung & groove system with necessary chemicals niles. polishing to be made for the teakwood planks. **Approved Rate**	Sqm	828.13	12000.00	Rupees Twelve Thousand Only
58	Providing and laying 1.35mm pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. **Approved Rate**	Sqm	1032.75	2916.00	Rupees Two Thousand Nine Hundred Sixteen Only
59	Supply, installtion, testing and commissioning of filters Commercial Bobin wound filter with 160mm fiange connection - 157 cumtr/hr Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work. Quantity upto125%	Nos	2.50	535000.00	Rupees Five lakh Thirty Five Thousand Only
	Quantity above 125%		0.50	535000.00	Rupees Five lakh Thirty Five Thousand Only
60	Supply, installtion, testing and commissioning of VALVE BATTERY Frontal Valve Assembly 160 mm connections with Valve support and Brackets Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work	Set	2.00	215940.00	Rupees Two lakh Fifteen Thousand Nine Hundred Forty Only
61	Supply, installtion, testing and commissioning of RECIRCULATING PUMPS 10 HP monoblock centrifugal pump 400V 3ph discharge:45 LPS at 13m head suction size:150mm, delivery: 150mm includes 1no standby directions of the Engineer-In-charge of the work	Nos	3.00	74290.00	Rupees Seventy Four Thousand Two Hundred Ninety Only
62	Supply, installtion, testing and commissioning of FLOOR INLETS bottom inlet for concrete with S.S. screws made of ABS plastic. Max. flow: 10cum/hr 2 inches threaded fitting directions of the Engineer-In-charge of the work	Nos	50.00	875.00	Rupees Eight Hundred Seventy Five Only
63	Supply, installtion, testing and commissioning of GUTTER GRATINGS Made in white, U.V. Stabilized PP. Width: 245mm, Height : 35mm directions of the Engineer-In-charge of the work	Nos	60.00	3060.00	Rupees Three Thousand Sixty Only
64	Supply, installtion, testing and commissioning of MAIN DRAIN GRATING COVER, material : SS 304 500mm x 500mmx6mm thick with slot openings of 6mm directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
65	Supply, installtion, testing and commissioning of STAINLESS STEEL PREFILTER 6 inches opening with threaded collar with sight glass, SS sieve, flow:170cum/hr Material: SS 304 directions of the Engineer-In-charge of the work	Nos	3.00	41500.00	Rupees Forty One Thousand Five Hundred Only
66	Supply, installtion, testing and commissioning of SUCTION INLETS ABS plastic, 2 inches external DIA glue type Flow:3.5 cum/hr, with threaded cap directions of the Engineer-In-charge of the work	Nos	50.00	875.00	Rupees Eight Hundred Seventy Five Only

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SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
67	Supply, installtion, testing and commissioning of STAINLESS STEEL LADDERS made of SS 316 with pipe dia 38mm with non skid steps with embossed finish or checkered finish overflow model No of steps = 3 directions of the Engineer-In-charge of the work	Nos	2.00	51750.00	Rupees Fifty One Thousand Seven Hundred Fifty Only
68	No of steps = 4 directions of the Engineer-In-charge of the work	Nos	2.00	55315.00	Rupees Fifty Five Thousand Three Hundred Fifteen Only
69	No of steps = 5 directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
70	Supply, installtion, testing and commissioning of MAINTENANCE KIT COMPRISING OF: a) LEAFE RAKE Deep bag net made in polypropylene and polyester netting butterfly nut connection directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
71	Curved brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
72	Straight brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
73	Reinforced aluminium telescopic handle 2.4/4.8m with clip connection directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
74	Metallic Anodized Aluminium Vacuum head directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
75	Extensible handles for cleaning attachments in anodized aluminium which can be adapted to the entire range of cleaning equipment, brushes, leaf skimmers and scoops 10m long directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
76	Transparent blue plastic vacuum hose 11/2" dia 30mtr slong including hose cuffs for connection to suction inlets directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
77	Supply, installtion, testing and commissioning of TEST KIT for checking free Chlorine & pHTablet type DPD directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
78	Supply, installtion, testing and commissioning of POOL CLEANER trolly mounted with 1.5 Hp self priming pump with prefillter, starter and 63mm flexible hose directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
79	Supply, installtion, testing and commissioning of LANE SEPERATOR ROPES directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
80	Supply, installtion, testing and commissioning of ANCHOR HOOKS STAINLESS STEEL fixed to end walls for lane ropes directions of the Engineer-In-charge of the work.Quantity upto 125%	Nos	15.00	3300.00	Rupees Three Thousand Three Hundred Only
81	Supply, installtion, testing and commissioning of CONTRL PANNEL WIRING, floor mounted CP, Control of Mtrs, volts meter, 3 Phase indicater System, Change over shutter, ELCB, MCB, Pump, coverage to each indicator relay, cable and conduit with pump engineers specification directions of the Engineer-In-charge of the work	Nos	1.00	100000.00	Rupees One lakh Only

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Sl. NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
82	Supply, installtion, testing and commissioning of GAS CHLORINATION SYSTEM vacuum type cylinder mounted gas (DCM) chlorinator capacity 0-500 gms/hr, chlorination system consisting of filter Assembly, Vacuum Regulator, flow meter assembly, control valve assembly, injector assembly including booster pump assembly and piping complete directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
83	Supply, installtion, testing and commissioning of BUTTERFLY VALVES Wafer type PN 10 STD,replacable EPDM sleeve CI body with SS316 disc a) 10 INCHES directions of the Engineer-In-charge of the work. Quantity upto 125%	Nos	2.50	26220.00	Rupees Twenty Six Thousand Two Hundred Twenty Only
	Quantity Above 125%		7.50	26220.00	Rupees Twenty Six Thousand Two Hundred Twenty Only
84	Supply, installtion, testing and commissioning of NON RETURN VALVES Material: gun metal Size: 8 inches directions of the Engineer-In-charge of the work. Quantity upto 125%	Nos	3.00	19700.00	Rupees Nineteen Thousand Seven Hundred Only
85	Supply, installtion, testing and commissioning of UPVC PIPES a) 400 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work	m	77.00	4900.00	Rupees Four Thousand Nine Hundred Only
86	d) 63 MM DIA 10KG/SQCM directions of the Engineer-In-charge of the work. Quantity upto 125%	m	61.00	260.00	Rupees Two Hundred Sixty Only
87	e) 160 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work	m	220.00	2000.00	Rupees Two Thousand Only
88	Supply, installtion, testing and commissioning of UPVC ELBOW 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work	Nos	10.00	4025.00	Rupees Four Thousand Twenty Five Only
89	c) 400 MM directions of the Engineer-In-charge of the work	Nos	9.00	26800.00	Rupees Twenty Six Thousand Eight Hundred Only
90	e)160 MM directions of the Engineer-In-charge of the work	Nos	28.00	1650.00	Rupees One Thousand Six Hundred Fifty Only
91	Supply, installtion, testing and commissioning of UPVC TEE 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work	Nos	49.00	2750.00	Rupees Two Thousand Seven Hundred Fifty Only
92	c) 400 MM directions of the Engineer-In-charge of the work	Nos	10.00	18055.00	Rupees Eighteen Thousand Fifty Five Only
93	e)160 MM directions of the Engineer-In-charge of the work	Nos	7.00	1650.00	Rupees One Thousand Six Hundred Fifty Only
94	Supply, installtion, testing and commissioning of UPVC REDUCER 6 KG/SQCM a) 160/400 directions of the Engineer-In-charge of the work	Nos	7.00	20800.00	Rupees Twenty Thousand Eight Hundred Only
95	63/160 directions of the Engineer-In-charge of the work	Nos	49.00	1090.00	Rupees One Thousand Ninety Only
96	Supply, installtion, testing and commissioning of STARTING BLOCKS FIBREGLASS 400 mm height non slip finish 0.5x 0.5m with nos 1 to 9 with anchoring fixtures directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero

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SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
97	Providing and fixing of white colour vitreous China clay,water closet **European type** (pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,PVC flush cistern (all are approved make) with fitting CI/MS brackets, 40mm diameter flush bend with fittings and clamp, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no74,It no.12.5)	Nos	10.00	5540.00	Rupees Five Thousand Five Hundred Forty Only
98	Providing and fixing of white colour vetreous China clay flat back. lipped front **urinal basin** of 430x260x350mm with 5 litres PVC automatic flushing cistern, CI /MS brackets, standard flush pipe and CP brass spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11(P.no 75,It no.12.7) Quantity upto 125%	Nos	6.00	3204.36	Rupees Three Thousand Two Hundred Four and Thirty Six Paise Only
99	Providing and fixing of white colour vetreous China clay flat back **wash basin** size 630x450mm with a single 15mm CP brass piller tap with CI / MS brackets, 32 mm CP brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no78 It.no.12.24)	Nos	10.00	3247.56	Rupees Three Thousand Two Hundred Forty Seven and Fifty Six Paise Only
100	Providing and fixing 600x450mm bevel lead **edge mirror** of superior glass with 6mm hard board backing and fixed to wooden cleats with CP screws, washers, including cost of materials, labour complete as per specifications.(P.no 79,It no.12.39)	Nos	0.00	0.00	Zero
101	Providing and fixing C.P brass **towel rail** 740mm length, 20 mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specification.(P.no 80,It no.12.45)	Nos	0.00	0.00	Zero
102	Providing and fixing 15mm dia Bib Cock	Nos	11.00	180.00	Rupees One Hundred Eighty Only
103	Providing and fixing Brass Union 15mm nominal bore with PVC Connection pipe 300mm length	Nos	0.00	0.00	Zero
104	Providing and fixing in position brass stop cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 20mm nominal bore.Quantity upto125%	Nos	37.50	172.80	Rupees One Hundred Seventy Two and Eighty Paise Only
	Quantity above 125%		3.50	155.31	Rupees One Hundred Fifty Five and Thirty One Paise Only
105	Providing and fixing in position brass bib cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 15mm nominal bore	Nos	10.00	249.48	Rupees Two Hundred Forty Nine and Forty Eight Paise Only
106	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe. Quantity upto125%	m	187.50	178.20	Rupees One Hundred Seventy Eight and Twenty Paise Only

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SL NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
	Quantity above 125%		249.00	178.20	Rupees One Hundred Seventy Eight and Twenty Paise Only
107	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 50mm nominal OD Pipe	m	10.00	486.00	Rupees Four Hundred Eighty Six Only
108	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 100mm Nominal OD Pipe	m	10.00	2570.40	Rupees Two Thousand Five Hundred Seventy and Forty Paise Only
109	Providing and fixing water meter with stop cock, jam nut, socket in G.I pipe line including cutting and threading the pipe and making long screws including cost of all materials, labour , HOM of equipments and testing complete as per specificationsKSRB(Pag no 88. Itm 13.22)	Nos	0.00	0.00	Zero
110	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification25mm nominal Dia	Nos	0.00	0.00	Zero
111	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.50mm Nominal Dia. Quantity upto125%	Nos	5.00	2216.16	Rupees Two Thousand Two Hundred Sixteen and Sixteen Paise Only
	Quantity above 125%		10.00	1915.49	Rupees One Thousand Nine Hundred Fifteen and Forty Nine Paise Only
112	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm dia. Quantity upto125%	Nos	5.00	648.00	Rupees Six Hundred Forty Eight Only
	Quantity above 125%		5.00	494.57	Rupees Four Hundred Ninety Four and Fifty Six Paise Only
113	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.80mm dia	Nos	0.00	0.00	Zero
114	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia. Quantity upto 125%	m	125.00	373.58	Rupees Three Hundred Seventy Three and Fifty Eight Paise Only
	Quantity above 125%		40.30	361.29	Rupees Three Hundred Sixty One and Twenty Eight Paise Only

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Sl.NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
115	Providing and fixing to wall,ceiling and floor high density polyethilne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour charge , HOM of quipment and testing complete as per specification 90mm dia	m	100.00	616.68	Rupees Six Hundred Sixteen and Sixty Eight Paise Only
116	Providing and fixing to wall,ceiling and floor high density polyethilne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour charge , HOM of quipment and testing complete as per specification 140mm dia. Quantity upto 125%	m	125.00	774.36	Rupees Seven Hundred Seventy Four and Thirty Six Paise Only
	Quantity above 125%		51.75	774.36	Rupees Seven Hundred Seventy Four and Thirty Six Paise Only
117	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cmsx 7.5. Quantity upto 125%	Nos	37.50	270.00	Rupees Two Hundred Seventy Only
	Quantity above 125%		4.50	270.00	Rupees Two Hundred Seventy Only
118	Providing and fixing 7.5 cms to 15.00 cms dia NP granting 100 mm dia Pag no 85. Itm 12.111 - Quantity upto 125%	Nos	37.50	172.80	Rupees One Hundred Seventy Two and Eighty Paise Only
	Quantity above 125%		4.50	165.22	Rupees One Hundred Sixty Five and Twenty Two Paise Only
119	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table mounted non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x 600mm internal dimensions, total weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications Pag no 70. Itm 11.50.1	Nos	7.00	7604.00	Rupees Seven Thousand Six Hundred Four Only
120	providing and fixing on wall surface 4 kg/sq.cm HDPE rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications P.No.47item No.8.19	m	300.00	613.44	Rupees Six Hundred Thirteen and Forty Four Paise Only
121	Providing & fixing of glazed Openable Window made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanized iron profiles throughout the window. The outer frame having a overall size of 60x55 mm with reinforcement of 1 mm thickness, mullion with overall size of 74x60	Sqm	9.91	7560.00	Rupees Seven Thousand Five Hundred Sixty Only
122	**PART A:- SUBSTATION EQUIPMENT** Supply and erection of 11Mtr Spun Pole including earth work etc., complete as per the standard technical specification directions of the Engineer-In-charge of the work	Each	1.00	22957.00	Rupees Twenty Two Thousand Nine Hundred Fifty Seven Only
123	Supply And Fixing of Single Pole Mounted Transformer Kit for 100/250KVA on 11Mtr Spun Pole etc. complete as per the standard technical specification of directions of the Engineer-In-charge of the work	Each	1.00	31800.00	Rupees Thirty One Thousand Eight Hundred Only

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Sl NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
124	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work 5.8.8) GOS Set 200 Amps Single break	Each	1.00	9840.00	Rupees Nine Thousand Eight Hundred Forty Only
125	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work5.8.1) H Frame Set	Each	1.00	4560.00	Rupees Four Thousand Five Hundred Sixty Only
126	Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.3) Horizontal. 50x450x6mm -980mm directions of the Engineer-In-charge of the work	Each	2.00	562.00	Rupees Five Hundred Sixty Two Only
127	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.4) Disc Insulator 70/90 KN directions of the Engineer-In-charge of the work	Each	6.00	540.00	Rupees Five Hundred Forty Only
128	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.3)11 KV Pin Insulator directions of the Engineer-In-charge of the work	Each	6.00	114.00	Rupees One Hundred Fourteen Only
129	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.8)HT ST Support 50x8 mmdirections of the Engineer-In-charge of the work	Each	2.00	172.00	Rupees One Hundred Seventy Two Only
130	Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.1)4 Pin 45x45x5mm - 1110mm directions of the Engineer-In-charge of the work	Each	4.00	461.00	Rupees Four Hundred Sixty One Only
131	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.10)Horn Gap Fuse Unit (H.G.) directions of the Engineer-In-charge of the work	Each	1.00	1320.00	Rupees One Thousand Three Hundred Twenty Only
132	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.12)Lightning Arrestor 9KV 5kA polymeric type. directions of the Engineer-In-charge of the work	Each	1.00	4250.00	Rupees Four Thousand Two Hundred Fifty Only
133	Supplying erection, testing and commissioning of 11kV Load Break Switch with 4 wire- (with Neutral) Metering cubicle and connected accessories, hardware's etc. suitable for outdoor type complete as per latest IS standard technical specification. LBS should be approved by BESCOM System :11KV, 3PH, 50HZ, Fault level: 350 MVA. Installation : OUTDOOR. a.Onload AIR BREAK switch with fuse trip mechanism.,3P,400A, 12KV,18.4 KA, 350MVA - 1 no b.11KV HRC Fuses with triping striker pin suitable Amps - 3nos c.Aluminium busbar, suitable rating 3 Phase,Air insulated with heat shrinkable sleevs - 1set d.Earth 25X3 mm Tin coated copper busbar - 1set e.Busbar supports resin cast with 33KV die electric and mechanical strength - 1 set directions of the Engineer-In-charge of the work	Each	1.00	319987.00	Rupees Three lakh Nineteen Thousand Nine Hundred Eighty Seven Only
134	Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07 directions of the Engineer-In-charge of the work	Nos	0.00	0.00	Zero
135	GI Pipes B - Class GI Pipe - 150 mm Dia Dia 768058 directions of the Engineer-In-charge of the work	m	10.00	1144.00	Rupees One Thousand One Hundred Forty Four Only

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Sl NO	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
136	TRANSFORMER:- Supplying, erecting, testing and commissioning of ..... KVA capacity Copper wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to-10% Steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification. 8.10.2) 100 KVA directions of the Engineer-In-charge of the work	Each	1.00	328700.00	Rupees Three lakh Twenty Eight Thousand Seven Hundred Only
137	LT KIOSK:- LT Distribution Box for 63/100 KVA Transformer with 1No 160Amps 25kA 4Pole MCCB, suitable capacity aluminum bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Transformer Centre directions of the Engineer-In-charge of the work	Set	1.00	18270.00	Rupees Eighteen Thousand Two Hundred Seventy Only
138	B. EARTHING SYSTEM Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia directions of the Engineer-In-charge of the work	Each	6.00	2727.00	Rupees Two Thousand Seven Hundred Twenty Seven Only
139	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. directions of the Engineer-In-charge of the work	Each	8.00	4317.00	Rupees Four Thousand Three Hundred Seventeen Only
140	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work	m	17.00	523.00	Rupees Five Hundred Twenty Three Only
141	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work	m	12.00	1018.00	Rupees One Thousand Eighteen Only
142	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm plate directions of the Engineer-In-charge of the work	m	4.00	7148.00	Rupees Seven Thousand One Hundred Forty Eight Only
143	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip directions of the Engineer-In-charge of the work	m	105.00	77.00	Rupees Seventy Seven Only
144	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm GI strip directions of the Engineer-In-charge of the work	m	20.00	166.00	Rupees One Hundred Sixty Six Only
145	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI Plate directions of the Engineer-In-charge of the work	m	4.00	784.00	Rupees Seven Hundred Eighty Four Only
146	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG directions of the Engineer-In-charge of the work	m	35.00	19.50	Rupees Nineteen and Fifty Paise Only

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Sl. No	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
147	PART C:-L.T Panel boards and distribution boards 1.0) Main LT Panel "Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 6.40.1) 14SWG" directions of the Engineer-In-charge of the work. Quantity upto 125%	Sqcm	216800.00	0.37	Thirty Seven Paise Only
	Quantity above 125%		39035.00	0.44	Forty Four Paise Only
148	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.5) 75x150x75x6mm C channel directions of the Engineer-In-charge of the work	m	5.00	791.00	Rupees Seven Hundred Ninety One Only
149	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE 200Amps 35kA.(Incoming) directions of the Engineer-In-charge of the work	nos	1.00	14592.00	Rupees Fourteen Thousand Five Hundred Ninety Two Only
150	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE125-160Amps 25kA.(Outgoing) directions of the Engineer-In-charge of the work	nos	3.00	7372.00	Rupees Seven Thousand Three Hundred Seventy Two Only
151	Supplying and fixing of Shunt trip suitable for MCCB.CBCT. directions of the Engineer-In-charge of the work	nos	4.00	1486.00	Rupees One Thousand Four Hundred Eighty Six Only
152	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work	nos	3.00	418.00	Rupees Four Hundred Eighteen Only
153	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16. 5-32Amps TPN (Outgoing) directions of the Engineer-In-charge of the work	nos	6.00	1547.00	Rupees One Thousand Five Hundred Forty Seven Only
154	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work	nos	3.00	442.00	Rupees Four Hundred Forty Two Only
155	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work	Each	1.00	390.00	Rupees Three Hundred Ninety Only
156	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work	Each	1.00	190.00	Rupees One Hundred Ninety Only

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Sl No	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
157	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work	Each	1.00	415.00	Rupees Four Hundred Fifteen Only
158	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work	Each	1.00	172.00	Rupees One Hundred Seventy Two Only
159	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work	Each	1.00	8003.00	Rupees Eight Thousand Three Only
160	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work	Each	3.00	483.00	Rupees Four Hundred Eighty Three Only
161	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. directions of the Engineer-In-charge of the work	Each	1.00	7998.00	Rupees Seven Thousand Nine Hundred Ninety Eight Only
162	Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work	m	3.00	2942.00	Rupees Two Thousand Nine Hundred Forty Two Only
163	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.6.12.1) 25Amps directions of the Engineer-In-charge of the work	Each	4.00	1303.00	Rupees One Thousand Three Hundred Three Only
164	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. directions of the Engineer-In-charge of the work	Nos	20.00	414.00	Rupees Four Hundred Fourteen Only
165	Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect / disconnect banks, with automatic recognition or with standard programs. directions of the Engineer-In-charge of the work	Each	1.00	18660.00	Rupees Eighteen Thousand Six Hundred Sixty Only
166	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.5) 75x150x75x6mm C channel directions of the Engineer	m	5.00	791.00	Rupees Seven Hundred Ninety One Only

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No.	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
157	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work	Each	1.00	415.00	Rupees Four Hundred Fifteen Only
158	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work	Each	1.00	172.00	Rupees One Hundred Seventy Two Only
159	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work	Each	1.00	8003.00	Rupees Eight Thousand Three Only
160	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work	Each	3.00	483.00	Rupees Four Hundred Eighty Three Only
161	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board. directions of the Engineer-In-charge of the work	Each	1.00	7998.00	Rupees Seven Thousand Nine Hundred Ninety Eight Only
162	Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work	m	3.00	2942.00	Rupees Two Thousand Nine Hundred Forty Two Only
163	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.6.12.1) 25Amps directions of the Engineer-In-charge of the work	Each	4.00	1303.00	Rupees One Thousand Three Hundred Three Only
164	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery. directions of the Engineer-In-charge of the work	Nos	20.00	414.00	Rupees Four Hundred Fourteen Only
165	Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect / disconnect banks, with automatic recognition or with standard programs. directions of the Engineer-In-charge of the work	Each	1.00	18660.00	Rupees Eighteen Thousand Six Hundred Sixty Only
166	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.5) 75x150x75x6mm C channel directions of the Engineer	m	5.00	791.00	Rupees Seven Hundred Ninety One Only

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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
167	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP directions of the Engineer-In-charge of the work	Each	3.00	418.00	Rupees Four Hundred Eighteen Only
168	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63 Amps TPN (Outgoing) directions of the Engineer-In-charge of the work	Each	6.00	1936.00	Rupees One Thousand Nine Hundred Thirty Six Only
169	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C. directions of the Engineer-In-charge of the work	Each	3.00	442.00	Rupees Four Hundred Forty Two Only
170	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board. directions of the Engineer-In-charge of the work	Each	1.00	390.00	Rupees Three Hundred Ninety Only
171	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter. directions of the Engineer-In-charge of the work	Each	1.00	140.00	Rupees One Hundred Forty Only
172	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT directions of the Engineer-In-charge of the work	Each	1.00	415.00	Rupees Four Hundred Fifteen Only
173	Supplying, fixing and wiring rotary selector switch suitable for Ammeter. directions of the Engineer-In-charge of the work	Each	1.00	172.00	Rupees One Hundred Seventy Two Only
174	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound. directions of the Engineer-In-charge of the work	Each	3.00	483.00	Rupees Four Hundred Eighty Three Only
175	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy. directions of the Engineer-In-charge of the work	Each	1.00	8003.00	Rupees Eight Thousand Three Only
176	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor. 6.2.1) Upto 12.5 HP directions of the Engineer-In-charge of the work	Each	4.00	6583.00	Rupees Six Thousand Five Hundred Eighty Three Only
177	Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 6.38.2) 250Amps 4x30x10mm Aluminum Strips directions of the Engineer-In-charge of the work	m	5.00	2942.00	Rupees Two Thousand Nine Hundred Forty Two Only

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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
178	3.0) MCB Distribution Boards Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door 6.17.7) 4Way TP &N directions of the Engineer-In-charge of the work	Each	3.00	2399.00	Rupees Two Thousand Three Hundred Ninety Nine Only
179	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps TPN directions of the Engineer-In-charge of the work	Each	3.00	1547.00	Rupees One Thousand Five Hundred Forty Seven Only
180	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32 Amps SP directions of the Engineer-In-charge of the work	Each	36.00	418.00	Rupees Four Hundred Eighteen Only
181	PART D:-SUBMAINS CIRCUIT MAINS/POWER WIRING Open Conduit System Supplying heavy gauge PVC conduit pipe .dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work	m	466.00	54.00	Rupees Fifty Four Only
182	Open Conduit System Supplying heavy gauge PVC conduit pipedia .mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia 2mm thick directions of the Engineer-In-charge of the work	m	141.00	70.00	Rupees Seventy Only
183	Open Conduit System Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work	m	81.00	100.00	Rupees One Hundred Only
184	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia .mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work	m	408.00	43.00	Rupees Forty Three Only

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185	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work. Quantity upto 125%	m	1469.00	57.00	Rupees Fifty Seven Only
186	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary32mm dia 2.5mm thick directions of the Engineer-In-charge of the work	m	282.00	90.00	Rupees Ninety Only
187	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe.dia .mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work	m	10.00	56.00	Rupees Fifty Six Only
188	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia.mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick directions of the Engineer-In-charge of the work	m	425.00	58.00	Rupees Fifty Eight Only
189	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.32mm dia 2.5mm thick directions of the Engineer-In-charge of the work	m	227.00	88.00	Rupees Eighty Eight Only
190	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet. GROUP A Short point upto 3Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work	m	10.00	174.00	Rupees One Hundred Seventy Four Only
191	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet. GROUP A Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work	Point	19.00	245.00	Rupees Two Hundred Forty Five Only

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				In Figure	In Words
192	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work	Point	126.00	363.00	Rupees Three Hundred Sixty Three Only
193	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work	Point	6.00	482.00	Rupees Four Hundred Eighty Two Only
194	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work	Point	2.00	682.00	Rupees Six Hundred Eighty Two Only
195	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 1.5 sqmm. directions of the Engineer-In-charge of the work	m	800.00	18.50	Rupees Eighteen and Fifty Paise Only
196	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.2.5 sqmm directions of the Engineer-In-charge of the work	m	2000.00	29.20	Rupees Twenty Nine and Twenty Paise Only
197	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.4 sqmm directions of the Engineer-In-charge of the work	m	475.00	42.30	Rupees Forty Two and Thirty Paise Only
198	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete. 1-3Way directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
199	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.4-5Way directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
200	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete.6Way directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero

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201	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete. 10-12Way directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
202	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 1 to 3 Module directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
203	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.4 Module directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
204	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.6 Module directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
205	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.8 Module directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
206	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.10 Module directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
207	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.12 Module directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
208	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6Amps 3way socket. directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
209	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 1000-1200Watts Dimmer directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
210	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 16Amps one way switch directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
211	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 32Amps DP switch directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
212	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A TV/Telephone socket directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero

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213	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 6/16Amps universal socket directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
214	PART E:-Light Fixtures and Fan Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 2x4'-28Watts directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
215	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4'-28Watts directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
216	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. Using necessary length of G.I. chain directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
217	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders directions of the Engineer-In-charge of the work	Each	69.00	98.00	Rupees Ninety Eight Only
218	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
219	Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC supply directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
220	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 56" Sweep (1400mm) 9.3.2.1) Regular model directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
221	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired. directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
222	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 9.2.1)12" Sweep (300mm) directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero

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				In Figure	In Words
223	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame. directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
224	PART-F :- CABLE AND CABLE END TERMINATION HT CABLES HT Cable GROUP A: Supplying and laying of high tension 11KV cable, Dry Curing & Dry Cooling with true triple extrusion, simultaneously through a single common head, 3 core under ground XLPE (E) cable having stranded compact circular aluminium conductor, screened insulated, insulation screened with extruded semiconducting compound in combination with copper tape, core laid up extruded inner sheathed of GI flat strip armoured and overall PVC sheathed with specified IS 7098/11/85 with latest amendments & confirming to the GTP of GROUP-A 8.3.1) 3Cx95 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
225	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) 7.9.2) In soil (hard) directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
226	LT CABLES Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 10 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
227	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 185 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
228	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 120 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
229	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 70 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero

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230	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
231	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
232	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 25 sqmm to 75 sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
233	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 95 sqmm to 150Sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
234	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 185sqmm to 240Sqmm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
235	END TERMINATION HT CABLE ENDTERMINATION Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations-OUTDOOR JOINTING KIT & confirming to the GTP. OUTDOOR 8.2.1) 3Cx95/120sqmm directions of the Engineer-In-charge of the work	Kit	0.00	0.00	Zero
236	Supplying and making 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations-INDOOR JOINTING KIT & confirming to the GTP. INDOOR 8.2.5) 3Cx95/120sqmm directions of the Engineer-In-charge of the work	Kit	0.00	0.00	Zero
237	LT CABLE END TERMINATION Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
238	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)32mm dia directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
239	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 50mm dia directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
240	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 75mm dia directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
241	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 16 sqmm directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
242	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 25 sqmm Long Barrel directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero

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243	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 70 sqmm Long Barrel directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
244	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 120 sqmm Long Barrel directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
245	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 185 sqmm Long Barrel directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
246	CABLE TRAY Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts/nuts and washer or welding as required. 7.19.1) 150x50mm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
247	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. In soil (hard) directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
248	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.C.C. cutting directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
249	G. MISCELLANEOUS ITEMS Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 7.12.2) 50mm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
250	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat … with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 6.39.1) 40x40x6mm directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
251	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables.7.20.10) 160mm OD / 135mm ID directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
252	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
253	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero

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254	Concealed Conduit System Supplying heavy gauge PVC conduit pipemm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work	m	0.00	0.00	Zero
255	Supplying and installation of ABC Kgs capacity Fire Extinguishers for multipurpose (Solid, Liquid, Gas, Electrical) a) 5 Kgs directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
256	Supplying and installation of Dry Chemical powder.Kg capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) b) 5 Kgs directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
257	Supplying and installation of Mechanical Foam-9ltrs capacity Fire Extinguishers for multipurpose (DG, Electrical Panel) directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
258	Supplying and installing of CO2Kgs capacity Fire Extinguishers for multipurpose (Servers, Panels, Computers, etc.,) c) 4-5 Kgs directions of the Engineer-In-charge of the work directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
259	Supplying of Four Bucket stand along with Buckets directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
260	Supplying of Hand Gloves directions of the Engineer-In-charge of the work	Pair	0.00	0.00	Zero
261	Supplying and installation of RUBBER MAT 1mt x 2mt-100mm thick directions of the Engineer-In-charge of the work	Each	0.00	0.00	Zero
262	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 7.4.10) 3.5 core 120 sqmm	m	0.00	0.00	Zero
263	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 7.8.8) 95 sqmm to 150Sqmm	m	0.00	0.00	Zero
264	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) 7.9.2) In soil (hard)	m	0.00	0.00	Zero
265	Supply and installation of Acoustic insulation using 50mm thick with 24Kg Density glass wool with 24G aluminum perforated sheet complete.	Sqm	0.00	0.00	Zero
266	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.65mm	m	0.00	0.00	Zero
267	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. 50mm	m	0.00	0.00	Zero

Contractor

Executive Engineer
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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
268	B. EARTHING SYSTEM Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	Each	0.00	0.00	Zero
269	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip	m	0.00	0.00	Zero
270	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.25x6mm Copper strip	m	0.00	0.00	Zero
271	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip	m	0.00	0.00	Zero
272	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required.40x6mm GI strip	m	0.00	0.00	Zero
273	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG	m	0.00	0.00	Zero
E1	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 300 to 350 m	m	100.00	653.41	Rupees Six Hundred Fifty Three and Forty One Paise Only
E2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 350 to 400 m	m	97.00	691.23	Rupees Six Hundred Ninety One and Twenty Three Paise Only
E3	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 400 to 430 m	m	27.00	691.23	Rupees Six Hundred Ninety One and Twenty Three Paise Only

Contractor

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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
E4	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305.	cum	569.16	357.98	Rupees Three Hundred Fifty Seven and Ninety Eight Paise Only
E5	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring and strutting, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavation earth to the extent required including the cost of labour & HOM of machineries, as per drawing and technical specification.	cum	1338.30	67.19	Rupees Sixty Seven and Nineteen Paise Only
E6	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160 mm outer dia	m	36.00	1053.65	Rupees One Thousand Fifty Three and Sixty Five Paise Only
E7	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 200 mm outer dia	m	12.00	1755.38	Rupees One Thousand Seven Hundred Fifty Five and Thirty Eight Paise Only
E8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beams haunchings, cantilelver, girders, bressumers and lintels exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No.	Sqm	1053.98	567.82	Rupees Five Hundred Sixty Seven and Eighty Two Paise Only
E9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 9 mtrs.	Sqm	1194.46	1288.75	Rupees One Thousand Two Hundred Eighty Eight and Seventy Four Paise Only
E10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton.	Sqm	87.76	572.78	Rupees Five Hundred Seventy Two and Seventy Seven Paise Only
E11	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.	Sqm	61.79	893.31	Rupees Eight Hundred Ninety Three and Thirty One Paise Only
E12	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. (Second Floor)	Sqm	41.14	970.41	Rupees Nine Hundred Seventy and Forty One Paise Only
E13	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications , (Ground Floor)	Sqm	596.64	225.81	Rupees Two Hundred Twenty Five and Eighty Paise Only

Contractor

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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
E14	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications , Second Floor	Sqm	90.72	239.02	Rupees Two Hundred Thirty Nine and Two Paise Only
E15	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.(Ground Floor)	Kg	227.31	104.64	Rupees One Hundred Four and Sixty Four Paise Only
E16	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications (Second Floor)	Kg	389.34	117.86	Rupees One Hundred Seventeen and Eighty Five Paise Only
E17	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Ground Floor)	Sqm	596.73	1797.63	Rupees One Thousand Seven Hundred Ninety Seven and Sixty Three Paise Only
E18	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification NoColour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Second Floor)	Sqm	90.72	1802.04	Rupees One Thousand Eight Hundred Two and Four Paise Only
E19	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm	Cum	10.78	7346.95	Rupees Seven Thousand Three Hundred Forty Six and Ninety Five Paise Only
E20	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2	Tonne	0.92	67593.06	Rupees Sixty Seven Thousand Five Hundred Ninety Three and Five Paise Only

Contractor

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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
E21	Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m.	Sqm	9.30	2871.59	Rupees Two Thousand Eight Hundred Seventy One and Fifty Eight Paise Only
E22	Providing and fixing factory made Galvanized plain steel door frame of profile size 125x60 mm single rebate manufactured from galvanized plain steel sheet 1.25mm thick, confirming to IS:277. The door frame consists of hinge jamb, lock jamb, head and bottom tie bars, supply in knockdown condition & to be assembeled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60mm thick pressed angle 20 x 20mm screwed to the door frame. The stiffness of 3mm thick MS GATE & pre-trapped are to be welded inside the pre-punched alots of the door frames & 4 nos. of S.S.butt hinges 100 x 59 2.5mm to be screwed to the door frame. The stiffeners & mortor guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre-treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading. HOM etc. but excluding the hardware fixtures. Size 1000 x 2130 mm	Rmt	11.60	600.31	Rupees Six Hundred and Thirty One Paise Only
E23	Providing and fixing factory made Galvanized plain steel door shutters 32mm thick manufactured from pre painted galvanized plain steel sheet 0.60mm thick confirming to the IS:14246. The door shutters consists of two outer skins if steel sheets , lock seam jointed at vertical stile edges, horizontal top and bottom sides to form a double skin fully flush shell. Rigid polyyurethane Foam (PUF) of density 40 kg/m3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60mm to be provided for fixing all hardware fixtures. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. Size 900 x 2035 x 32 mm	Sqm	3.60	600.31	Rupees Six Hundred and Thirty One Paise Only
E24	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 20mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.)160mm dia Pipe	m	61.60	600.31	Rupees Six Hundred and Thirty One Paise Only

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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
E25	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification	Sqm	779.58	579.38	Rupees Five Hundred Seventy Nine and Thirty Eight Paise Only
E26	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton.	Sqm	346.56	711.56	Rupees Seven Hundred Eleven and Fifty Six Paise Only
E27	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted. in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be. with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved qualitycomplete as per specifications and directions of the Engineer in charge	Sqm	32.45	4885.12	Rupees Four Thousand Eight Hundred Eighty Five and Eleven Paise Only
E28	KSRB13-6.7 : Providing and fixing in position chromium plated brass shower rose with 15 or 20mm inlet including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS 13.2.16 / 13.3 KSRB13-6.7-2 - do - 150 mm dia	Each	14.00	826.12	Rupees Eight Hundred Twenty Six and Eleven Paise Only
E29	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications and directions of the Engineer in charge	Nos	3.00	1504.64	Rupees One Thousand Five Hundred Four and Sixty Three Paise Only

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	Item Name	Unit	Modified Estimate Quantity	Quoted rate of K Somappa	
				In Figure	In Words
E30	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Cum	0.38	96495.11	Rupees Ninety Six Thousand Four Hundred Ninety Five and Ten Paise Only
E31	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries (excluding cost of fixtures) complete as per specifications and directions of the Engineer in charge.	Sqm	8.11	5201.25	Rupees Five Thousand Two Hundred One and Twenty Four Paise Only
E32	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, .complete as per specifications and directions of the Engineer in charge	Sqm	48.94	106.84	Rupees One Hundred Six and Eighty Four Paise Only
E33	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.	Sqm	14.29	787.57	Rupees Seven Hundred Eighty Seven and Fifty Six Paise Only
E34	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.	Sqm	10.30	6622.17	Rupees Six Thousand Six Hundred Twenty Two and Sixteen Paise Only

Executive Engineer
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Yelahanka Zone

Contractor

Executive Engineer

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಯಲಹಂಕ ವಲಯ)ರವರ ಕಛೇರಿ, ಬ್ಯಾಟರಾಯನಪುರ ಬೆಂಗಳೂರು-92

ಸಂ: ಮು.ಅ(ಯ)/ಮಾ.ತಾ.ಮಂ/ 47 /2024-25 ದಿನಾಂಕ: 10.03.2025

ಮಾರ್ಪಾಡು ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ

ವಿಷಯ: Construction of Swimming pool at Amrutha Nagara Byatarayanapura in ward no-07 ಕಾಮಗಾರಿಯ ಮಾರ್ಪಾಡು ಅಂದಾಜು ಮೊತ್ತ ರೂ.**7,00,72,493.00ಗಳು (Including GST)**

ಉಲ್ಲೇಖ:
1. ಮಾನ್ಯ ಆಯುಕ್ತರವರ ಅಧಿಕಾರ ಪ್ರತ್ಯಾಯೋಜನೆ ಆದೇಶ ಸಂಖ್ಯೆ: ಬಿ12(1)ಪಿಆರ್/394/21-22, ದಿನಾಂಕ:18-01-2022.
2. ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಸಂಖ್ಯೆ:ಕಾ.ಪಾ.ಅ/ಯೋ.ವಿ/ಪಿಆರ್/205/2018-19 ದಿನಾಂಕ:06-09-2018
3. ಮೂಲತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಮೆಮೋ ಸಂಖ್ಯೆ:ಮು.ಅ/ಯ.ವ/ತಾಂ.ಅ/ಪಿಆರ್/432/2017-18, ದಿನಾಂಕ:17-12-2017
4. ಲೆಕ್ಕಶೀರ್ಷಿಕೆ ಪಿ-1732, ಜಾಬ್ ಸಂಖ್ಯೆ:007-15-000059

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ಮೇಲಿನ ವಿಷಯದಲ್ಲಿ ತಿಳಿಸಿರುವ ಕಾಮಗಾರಿಗೆ ಉಲ್ಲೇಖ (3)ರಂತೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ದೊರೆತಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಯ ಅವಶ್ಯಕತೆಗೆ ಅನುಗುಣವಾಗಿ ಮೂಲ ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಕೆಲವು ಮಾರ್ಪಾಡು ಮಾಡಿ ಮಾರ್ಪಾಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಿ ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಯಲಹಂಕ) ರವರ ಆದೇಶದಂತೆ ಸದರಿ ಮಾರ್ಪಾಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಪರಿಶೀಸಿದ್ದು, ರೂ.**7,00,72,493.00ಗಳು (ಏಳು ಕೋಟಿ ಎಪ್ಪತ್ತೆರಡು ಸಾವಿರದ ನಾಲ್ಕು ನೂರ ಮೂವತ್ತೊಂಬತ್ತು ರೂಗಳು ಮಾತ್ರ)(Including GST)** ಮಾರ್ಪಾಡು ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಪುಸ್ತಕದ ಪುಟ ಸಂಖ್ಯೆ: 10 ಕ್ರಮ ಸಂಖ್ಯೆ: 47 ರಲ್ಲಿ ನಮೂದಿಸಿ, ಅನುಮೋದಿತ ಮೂಲ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ನೀಡಲಾಗಿದ್ದ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ರದ್ದುಗೊಳಿಸಿ, ಈ ಕೆಳಗಿನ ಷರತ್ತುಗೊಳಪಡಿಸಿ ಮಾರ್ಪಾಡು ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಲಾಗಿದೆ.

ಸಹಿ/-
ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಯಲಹಂಕ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.

ಈ ಕೆಳಕಂಡ ನಿಬಂಧನೆ/ಷರತ್ತುಗಳನ್ನು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ರವರು ಕಡ್ಡಾಯವಾಗಿ ಪಾಲಿಸುವುದು

1. ದರಪಟ್ಟಿ ಆಧಾರಿತವಲ್ಲದ ಅಂಶಗಳಿಗೆ ಡೆಟೂ ದರವನ್ನು ತಯಾರಿಸಿ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
2. ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಮಾರುಕಟ್ಟೆ ದರ ಅಳವಡಿಸಿಕೊಂಡಿರುವ ಅಂಶಗಳಿಗೆ ಕೋಟೆಷನ್ ಕರೆದು ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
3. ಇಡಿಗಂಟು (Lumpsum/Miscellaneous Amount) ವೆಚ್ಚದ ಸಮಯದಲ್ಲಿ ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದಿಂದ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.

ಮು.ತಿ.ನೋ...

ಸಂಖ್ಯೆ: ಮು.ಅ.(ಯ)/ತಾ.ಮಂ/ 47 /2024-25 ದಿನಾಂಕ: 10.07.2024

4. ಕಡತ ಪರಿಶೀಲನೆ ಹಾಗೂ ಕಾಮಗಾರಿ ಅನುಷ್ಠಾನಗೊಳಿಸುವ ಸಮಯದಲ್ಲಿ ಈ ಕೆಳಕಂಡ ಆದೇಶಗಳನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಪಾಲಿಸುವುದು.

- ಮು.ಅ(ಜಾ ಮತ್ತು ಪಿ.ಪಿ.ಇ.ಡಿ)/ಪಿಆರ್/18/12-13, ದಿನಾಂಕ: 19-01-2013
- ಪ್ರ.ಅ/ಪಿಆರ್/1040/13-14, ದಿನಾಂಕ: 04-09-2013
- ಆ/ಪ್ರ.ಅ/ಪಿಆರ್/7639/12-13, ದಿನಾಂಕ: 17-10-2012
- ಆ/ಪಿಆರ್/7844/12-13, ದಿನಾಂಕ: 09-01-2013

5. ಮಾನ್ಯ ಆಯುಕ್ತರು ರವರ ಆಂತರಿಕ ಕಛೇರಿ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ: ಬಿಬಿಎಂಪಿ/ಆ/ಪಿಆರ್/6166/2019-20, ದಿನಾಂಕ: 13-12-2019ರಂತೆ ಸೂಕ್ತ ಕ್ರಮಕೈಗೊಳ್ಳುವುದು.
6. ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿಯಲ್ಲಿನ ಕಾಮಗಾರಿ ಅನುಷ್ಠಾನಗೊಳಿಸುವಲ್ಲಿ ಅನುಸರಿಸಬೇಕಾದ ಕ್ರಮಗಳ ಕುರಿತಾಗಿ ಮಾನ್ಯ ಆಯುಕ್ತರು ರವರ ಆಂತರಿಕ ಕಛೇರಿ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ: ಬಿಬಿಎಂಪಿ/ಆ/ಪಿಆರ್/5287/2019-20, ದಿನಾಂಕ: 05-11-2019ರಲ್ಲಿ ಸೂಚಿಸಿರುವ ಕ್ರಮಗಳನ್ವಯ ನಿಯಮಾನುಸಾರ ಅನುಷ್ಠಾನಗೊಳಿಸುವುದು.
7. ಧೃಢೀಕೃತ ನಿರ್ದೇಶನದ ನಕಾಶೆ ಹಾಗೂ ಕಾಮಗಾರಿ ಸ್ಥಳದಿಂದ ಪ್ರಸ್ತಾಪಿತ ಡಂಪಿಂಗ್ ಯಾರ್ಡ್ ಸ್ಥಳದ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
8. ರಸ್ತೆ ಇತಿಹಾಸ ಪುಸ್ತಕದಲ್ಲಿ ಕಾಮಗಾರಿಯ ಕೆಲಸಗಳಾದ ಚಿಪ್‌ಕಾರ್ಪೆಟಿಂಗ್, ಜೆಲ್ಲಿರಸ್ತೆ, ಡಾಂಬರೀಕರಣದ ಕೆಲಸವನ್ನು ನಮೂದಿಸುವುದು.
9. ನಿಗಧಿತ ಅವಧಿಯೊಳಗೆ ಕಾಮಗಾರಿಯನ್ನು ಪೂರ್ಣಗೊಳಿಸುವುದು. ಸಾಧ್ಯವಾಗದ ಪಕ್ಷದಲ್ಲಿ ಕಾಲಾವಧಿ ವಿಸ್ತರಣೆಯನ್ನು ಸೂಕ್ತ ಸಮಜಾಯಿಷಿಯೊಂದಿಗೆ/ವಿವರವಾದ ಸಮಂಜಸ ವರದಿ ನೀಡಿ ಕಾಲಾವಧಿ ವಿಸ್ತರಣೆ ಪಡೆಯುವುದು.
10. ಸದರಿ ಕೈಗೊಳ್ಳುವ ಕಾಮಗಾರಿಯು ಪುನರಾವರ್ತನೆ ಅಥವಾ ನಕಲು ಆಗಿರುವುದಿಲ್ಲವೆಂಬ ಬಗ್ಗೆ ಸಂಬಂಧಪಟ್ಟ ಅಭಿಯಂತರರು ಟಿಪ್ಪಣಿ ಹಾಳೆಯಲ್ಲಿ ಹಾಗೂ ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ದೃಢೀಕರಿಸುವುದು.
11. ಮೇಲಾಧಿಕಾರಿಗಳಿಗೆ ಮಾಹಿತಿ ಒದಗಿಸುವಲ್ಲಿ ಮರೆಮಾಚಿದಲ್ಲಿ ಹಾಗೂ ಅಂದಾಜು ಪಟ್ಟಿ ತಯಾರಿಸುವಲ್ಲಿ ಯಾವುದಾದರೂ ಲೋಪದೋಷಗಳು ಕಂಡು ಬಂದಲ್ಲಿ, ಸಂಬಂಧಪಟ್ಟ ವಾರ್ಡಿನ ಸಹಾಯಕ ಅಭಿಯಂತರರು/ ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು/ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರನ್ನು ನೇರ ಜವಾಬ್ದಾರರನ್ನಾಗಿ ಮಾಡಲಾಗುವುದು.
12. ಕಾಮಗಾರಿಯ ಗುಣಮಟ್ಟವನ್ನು ಕಾಯ್ದಿರಿಸುವ ಬಗ್ಗೆ ಸಂಬಂಧಪಟ್ಟ ವಾರ್ಡಿನ ಸಹಾಯಕ ಅಭಿಯಂತರರು/ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು/ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರನ್ನು ನೇರ ಜವಾಬ್ದಾರರನ್ನಾಗಿ ಮಾಡಲಾಗುವುದು.

ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಯಲಹಂಕ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಪ್ರತಿಯನ್ನು:

1) ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಯೋಜನೆ ವಿಭಾಗ ರವರಿಗೆ ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ ರವಾನಿಸಿದೆ.
2) ಕಛೇರಿ ಕಡತಕ್ಕೆ.

RUDRAPRASAD CONSULTANTS
Structural Engineers, Architects &
Project Management Consultants

To,

Date: 02-08-2024

ASSISTANT EXECUTIVE ENGINEER
PROJECT SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of **"CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.7"**

Ref: 1. Work Order No: EE(Project)/Ynk Zone/WO/12/18-19
2. Job code: 007-15-000059

AG for n/a

We are here with forwarding to Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054. Fifth & Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 1,61,97,446.00/- (Rs. One Crore Sixty one Lakhs Ninety Seven Thousand Four Hundred and Forty Six Only). First and Part bill for Rs. 2,14,90,302.35/- /- were previously submitted ,Second and Part bill for Rs. 1,20,93,098.39/- were previously submitted, Third and Part bill for Rs. 1,41,79,050.00/-were previously submitted , Fourth and Part bill for Rs. . 61,12,596/- were previously submitted & the total bill amount submitted till date being Rs. 7,00,72,493.00/-(Rs. Seven Crore Seventy Two Thousand four Hundred and Ninety Three Only).

Thanking you

Yours faithfully,

For Rudraprasad Consultants

R. KARTHIK RECHAN B.E, M.S (U.S.A)
PRINCIPAL CONSULTANT
RUDRAPRASAD CONSULTANTS

RUDRAPRASAD CONSULTANTS BANGALORE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Attachments PMC Compliance report

#3, 7th Main Malleswaram, Bangalore – 560003
Telefax: 9180 23444801, Mobile: 91 9972924526
Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

RUDRAPRASAD CONSULTANTS
Structural Engineers, Architects &
Project Management Consultants

NAME OF WORK:- CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.7

Name of Client : EXECUTIVE ENGINEER, PROJECT DIVISION, YELAHANKA ZONE, BBMP, BANGALORE

Contractor/ Agency : Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054

Total Cost : Rs. 1,61,97,446.00/-

Date Of Inspection : 02-08-24

Status Of Bill : Fifth & Final Bill

In the Presence of : a) Assistant Engineer Project Sub division, Yelahanka Zone, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	**Description of work**	**Comments/Observations**
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of ciods complete as per specification	Work done upto the Billed Quantity and the Quality is satisfactory
6	Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory

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Assistant Engineer

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7	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixedf concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25(for Side Walls and Bottom)	Work done upto the Billed Quantity and the Quality is satisfactory
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, incluidng attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specfiications	Work done upto the Billed Quantity and the Quality is satisfactory
10	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick	Work done upto the Billed Quantity and the Quality is satisfactory
11	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

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13	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500	Work done upto the Billed Quantity and the Quality is satisfactory
14	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing cpmplete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory
15	Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size 40x20x20cms confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
16	Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
18	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

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20	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For Outside Plastering	Work done upto the Billed Quantity and the Quality is satisfactory
21	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications Internal wall platering	Work done upto the Billed Quantity and the Quality is satisfactory
23	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick	Work done upto the Billed Quantity and the Quality is satisfactory
24	Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)	Work done upto the Billed Quantity and the Quality is satisfactory
25	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications	Work done upto the Billed Quantity and the Quality is satisfactory

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26	Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
57	Providing and laying wooden floor for batmitun court & Gym room using 50x75mm Runners at the intervals of 0.45 both ways using mathi/sal wood with nailing properly fixing to existing roof concrete and above the Runners the planks of teakwood using tung & groove system with necessary chemicals niles. polishing to be made for the teakwood planks. Approved Rate	Work done upto the Billed Quantity and the Quality is satisfactory
59	Supply, installtion, testing and commissioning of filters Commercial Bobin wound filter with 160mm fiange connection - 157 cumtr/hr Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work.	Work done upto the Billed Quantity and the Quality is satisfactory
63	Supply, installtion, testing and commissioning of GUTTER GRATINGS Made in white, U.V. Stabilized PP. Width: 245mm, Height : 35mm directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
67	Supply, installtion, testing and commissioning of STAINLESS STEEL LADDERS made of SS 316 with pipe dia 38mm with non skid steps with embossed finish or checkered finish overflow model No of steps = 3 directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
68	No of steps = 4 directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
80	Supply, installtion, testing and commissioning of ANCHOR HOOKS STAINLESS STEEL fixed to end walls for lane ropes directions of the Engineer-In-charge of the work.	Work done upto the Billed Quantity and the Quality is satisfactory

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Pro. Division
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97	Providing and fixing of white colour vitreous China clay,water closet European type (pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,PVC flush cistern (all are approved make) with fitting CI/MS brackets, 40mm diameter flush bend with fittings and clamp, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification	Work done upto the Billed Quantity and the Quality is satisfactory
98	Providing and fixing of white colour vetreous China clay flat back. lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, CI /MS brackets, standard flush pipe and CP brass spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory
99	Providing and fixing of white colour vetreous China clay flat back wash basin size 630x450mm with a single 15mm CP brass piller tap with CI / MS brackets, 32 mm CP brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification	Work done upto the Billed Quantity and the Quality is satisfactory
102	Providing and fixing 15mm dia Bib Cock	Work done upto the Billed Quantity and the Quality is satisfactory
104	Providing and fixing in position brass stop cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 20mm nominal bore	Work done upto the Billed Quantity and the Quality is satisfactory
105	Providing and fixing in position brass bib cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 15mm nominal bore.	Work done upto the Billed Quantity and the Quality is satisfactory

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106	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe.	Work done upto the Billed Quantity and the Quality is satisfactory
111	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.50mm Nominal Dia	Work done upto the Billed Quantity and the Quality is satisfactory
112	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
114	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia.	Work done upto the Billed Quantity and the Quality is satisfactory
116	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
117	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cmsx 7.5.	Work done upto the Billed Quantity and the Quality is satisfactory
118	Providing and fixing 7.5 cms to 15.00 cms dia NP granting 100 mm dia	Work done upto the Billed Quantity and the Quality is satisfactory

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119	onstructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table mounted non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x 600mm internal dimensions, total weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
120	providing and fixing on wall surface 4 kg/sq.cm HDPE rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
E12	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. (Second Floor)	Work done upto the Billed Quantity and the Quality is satisfactory
E13	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications.(Ground Floor)	Work done upto the Billed Quantity and the Quality is satisfactory

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E15	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications..(Ground Floor)	Work done upto the Billed Quantity and the Quality is satisfactory
E17	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (Ground Floor)	Work done upto the Billed Quantity and the Quality is satisfactory
E19	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm	Work done upto the Billed Quantity and the Quality is satisfactory

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E27	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved qualitycomplete as per specifications and directions of the Engineer in charge	Work done upto the Billed Quantity and the Quality is satisfactory
E28	Providing and fixing in position chromium plated brass shower rose with 15 or 20mm inlet including cost of all materials, labour and HOM with all leads complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
E29	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications and directions of the Engineer in charge	Work done upto the Billed Quantity and the Quality is satisfactory

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E30	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames , wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and rode clamps) but including cost of materials, labour, HOM of machineries complete as per specifications and directions of the Engineer in charge	Work done upto the Billed Quantity and the Quality is satisfactory
E31	Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries (excluding cost of fixtures) complete as per specifications and directions of the Engineer in charge	Work done upto the Billed Quantity and the Quality is satisfactory
E32	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and directions of the Engineer in charge	Work done upto the Billed Quantity and the Quality is satisfactory
E33	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

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E34	Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per	Work done upto the Billed Quantity and the Quality is satisfactory

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QC ABSTRACT

AME OF WORK: "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"

NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

8	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.85	2	2
10	RCC(M20)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	10.3	4	4
11	RMC(M25)	Compressive Strength(7days and 28days)	3 Sets	1.89	6	6
12	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
13	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
14	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
15	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
16	Cement Concrete Designer Tiles	Water Absorption	One Test		1	1
		Wet Transverse Strength	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2024-06-17-07 **Date: 04-03-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
Date of Receipt	:	01-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2024-06-17-07 **Date: 30-03-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
Date of Receipt	:	01-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	02-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2024-06-17-07 **Date: 04-03-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
Date of Receipt	:	01-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-06-17-07 Date: 04-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2024-06-17-07	**Date: 03-03-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"	
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054	
Customer Reference	:	EE(Project)/Ynk Zone/WO/12/18-19	
Date of Receipt	:	01-03-23	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	01-03-23	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-06-17-07 Date: 03-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2024-06-17-07 **Date: 03-03-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
Date of Receipt	:	01-03-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ab ID : CP-2024-06-17-07 Date: 03-03-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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R KARTHIK RECHAN
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Quality Manager

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TEST RESULTS OF STEEL

b ID	:	**CP-2024-06-17-07** **Date: 02-03-23**
oject Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
ency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
stomer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
te of Receipt	:	01-03-23
mple Type	:	Sunvik
ference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
te of test:	:	01-03-23

No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

ıe results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Spectro Chemical Analysis, Physical, Non Destructive All Type of Metal Testing

	: CP-2024-06-17-07	**Date: 03-03-23**
Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
ıer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
Receipt	:	01-03-23
Type / Grade	:	Sunvik
test	:	01-03-23

CHEMICAL ANALYSIS

).	Chemical Contents	8mm	10mm	12mm	16mm	Max. Limits as per IS:1786-2008, Gr. Fe 500
	Carbon (C) %	0.145	0.134	0.148	0.183	0.300 Max
	Phosphorus (P) %	0.031	0.043	0.045	0.039	0.055 Max
	Sulphur (S) %	0.038	0.043	0.042	0.047	0.055 Max
	Sulphur & Phosphorus %	0.088	0.065	0.079	0.081	0.105 Max

e above material confirms to ASI S S 304 with respect to elements analysed

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Engineer
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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2024-06-17-07** **Date: 03-03-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
Date of Receipt	:	25-02-23
Identification Mark on Brick	:	MTB
Reference to BIS codes	:	IS 1077 : 1992 (RA 2021) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2019) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	25-02-23

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					**8.1**	

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Lab ID : CP-2024-06-17-07 Date: 03-03-23

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			**10.5**	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2024-06-17-07 **Date: 19/02/2024**

ame : "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
: Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054

r's Reference : EE(Project)/Ynk Zone/WO/12/18-19

Receipt : 14-02-24

r ID : GF Lintel Concrete

Type /Size : 150X150X150 mm

grade/Age : M25 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

est : 19/02/2024

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Lintel Concrete	M25	12/02/2024	19/02/2024	150.07 X 150.19 X 150.82	22539	8.535	404.7	18.0	17.8
Lintel Concrete	M25	12/02/2024	19/02/2024	150.42 X 150.67 X 150.41	22664	8.349	403.9	17.8	
Lintel Concrete	M25	12/02/2024	19/02/2024	150.73 X 150.02 X 150.07	22613	8.386	401.1	17.7	

lts obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

)	:	CP-2024-06-17-07
		Date: 11/03/2024
t Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
r	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
ner's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
f Receipt	:	14-02-24
ner ID	:	GF Lintel Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M25 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	11/03/2024

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
GF Lintel Concrete	M25	12/02/2024	11/03/2024	150.14 X 150.46 X 150.66	22590	8.867	638.1	28.2	28.3
GF Lintel Concrete	M25	12/02/2024	11/03/2024	150.19 X 150.07 X 150.75	22539	8.554	641.8	28.5	
GF Lintel Concrete	M25	12/02/2024	11/03/2024	150.44 X 150.82 X 150.09	22689	8.589	638.8	28.2	

sults obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
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BBMP, Bangalore - 92

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/03/2023

)	:	CP-2024-06-17-07
t Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
s	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
ner's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
f Receipt	:	08-03-23
ner ID	:	Baby Pool Slab Concrete
Type /Size	:	150X150X150 mm
grade/Age	:	M25 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
test	:	13/03/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Baby Pool Slab Concrete	M25	06/03/2023	13/03/2023	150.86 X 150.26 X 150.76	22669	8.552	416.8	18.4	18.0
Baby Pool Slab Concrete	M25	06/03/2023	13/03/2023	150.93 X 150.23 X 150.75	22675	8.567	399.8	17.6	
Baby Pool Slab Concrete	M25	06/03/2023	13/03/2023	150.71 X 150.94 X 150.51	22748	8.649	410.2	18.0	

ults obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/04/2023

: CP-2024-06-17-07

: "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"

Name : Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054

ıer's Reference : EE(Project)/Ynk Zone/WO/12/18-19

Receipt : 08-03-23

ıer ID : Baby Pool Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M25 / 28 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 03/04/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Baby Pool Slab Concrete	M25	06/03/2023	03/04/2023	150.98 X 150.68 X 150.93	22750	8.338	655.9	28.8	28.8
Baby Pool Slab Concrete	M25	06/03/2023	03/04/2023	150.16 X 150.71 X 150.50	22630	8.543	651.2	28.8	
Baby Pool Slab Concrete	M25	06/03/2023	03/04/2023	150.91 X 150.72 X 150.58	22746	8.516	654.0	28.8	

sults obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Format No: CP/TT/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2024-06-17-07	Date: 16/03/2023
D	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
t Name	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
y mer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
f Receipt	:	11-03-23
mer ID	:	Baby Pool Side wall Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M25 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	16/03/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Baby Pool Side wall Concrete	M25	09/03/2023	16/03/2023	150.71 X 150.70 X 150.25	22712	8.681	402.9	17.7	18.1
Baby Pool Side wall Concrete	M25	09/03/2023	16/03/2023	150.06 X 150.15 X 150.88	22532	8.205	416.1	18.5	
Baby Pool Side wall Concrete	M25	09/03/2023	16/03/2023	150.89 X 150.13 X 150.40	22653	8.209	410.4	18.1	

sults obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/04/2023

)	:	CP-2024-06-17-07
t Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
)	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
mer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
f Receipt	:	11-03-23
ner ID	:	Baby Pool Side wall Concrete
e Type /Size	:	150X150X150 mm
e grade/Age	:	M25 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	06/04/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Baby Pool Side wall Concrete	M25	09/03/2023	06/04/2023	150.61 X 150.01 X 150.96	22592	8.738	654.8	29.0	28.6
Baby Pool Side wall Concrete	M25	09/03/2023	06/04/2023	150.89 X 150.47 X 150.36	22706	8.952	638.3	28.1	
Baby Pool Side wall Concrete	M25	09/03/2023	06/04/2023	150.48 X 150.77 X 150.04	22689	8.334	651.7	28.7	

sults obtained are satisfactory as per standard requirements.

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

ıb ID	:	CP-2024-06-17-07 **Date: 11-07-23**
oject Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
ency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
stomer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
te of Receipt	:	08-07-23
mple Type	:	Fine Aggregate, M.Sand for Mortar
ference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
te of test	:	08-07-23
tal weight taken	:	1000 grams

Lno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

: CP-2024-06-17-07 Date: 11-07-23

CAL PROPERTIES

Tests	Result	Requirements as per IS 383:2016
Water Absorption(%)	3.18	-
Specific Gravity	2.51	-
Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
Compacted Bulk Density (Kg/litre)	1.90	-
Loose Bulk Density (Kg/litre)	1.73	-

ults obtained are satisfactory as per standard requirements.

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Asst. Executive Engineer
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Format No: C P/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2024-06-17-07 **Date: 12-07-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
Date of Receipt	:	08-07-23
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-07-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

Asst. Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2024-06-17-07 Date: 12-07-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CERAMIC TILES

Lab ID	:	CP-2024-06-17-07	Date: 20-12-23
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"	
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19	
Date of Receipt	:	14-12-23	
Sample Type/ Size	:	Ceramic tiles (300X300)mm	
Reference to BIS codes	:	IS 13630 (part 1) : 2019, IS 15622:2018	
Date of test	:	14-12-23	

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	6.04	6.01	6.08	6.04
2	300	300	300	300	6.01	6.07	6.01	6.01
3	300	300	300	300	6.03	6.05	6.06	6.03
4	300	300	300	300	6.06	6.05	6.08	6.06
5	300	300	300	300	6.08	6.06	6.05	6.08
6	300	300	300	300	6.03	6.07	6.07	6.07
7	300	300	300	300	6.08	6.05	6.08	6.07
8	300	300	300	300	6.02	6.05	6.04	6.05
9	300	300	300	300	6.04	6.04	6.02	6.04
10	300	300	300	300	6.04	6.01	6.05	6.04
Average	300		300		6.05			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

* The results obtained are satisfactory as per standard requirements.

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CEMENT CONCRETE FLOORING TILES

Lab ID : CP-2024-06-17-07 **Date:** 04-03-24
Project Name : "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
Agency : Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
Customer Reference : EE(Project)/Ynk Zone/WO/12/18-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 27-02-23
Sample Type : Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes : IS 1237:2012 (RA 2017)
Date of test : 27-02-23

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption (%)	Average (%)	Requirement as per IS:1237-2012
	L	B	T			
1	400	399	25.09	2.530	2.21	The average percentage of water absorption shall not exceed 10.
2	401	401	25.05	1.920		
3	400	401	25.11	2.170		
4	400	399	25.06	2.060		
5	399	400	25.17	1.800		
6	400	400	25.13	2.760		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse Strength (N/mm^2)	Average (N/mm^2)	Requirement as per IS:1237-2012
	L	B	T			
1	401	401	25.02	7.83	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.16		
3	400	399	25.06	7.51		
4	399	401	25.01	7.88		
5	400	400	25.05	8.25		
6	401	399	25.03	7.29		

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	CP-2024-06-17-07	**Date: 04-03-23**
Project Name	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"	
Agency	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19	
Date of Receipt	:	02-03-23	
Type of Sample	:	Chain Link Fencing	
Reference to BIS codes	:	IS 2062:2011 (RA 2021)	
Date of testing	:	02-03-23	

TESTS RESULT FOR WIRE MESH

SL.NO	Description	Result
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 08-08-23

	:	CP-2024-06-17-07
me	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
. Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
ceipt	:	04-08-23
pe Size	:	Solid concrete blocks size (400X200X200)mm
o BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1/Hollow and Solid Concrete Blocks (Dimensions -Annex-B. Clause 9.2 and 10 . Block density Annex -C Clause 9.3 and10. Compressive strength Annex -D Clause 9.4 and 10. Water absorption Annex -E Clause 9.5 and 10)
	:	04-08-23

ENSITY:

Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
Length	Breadth	Height					
mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
403	198	199	15879	31.590	1989.4	2040.3	Not less than 1800Kg/m^3
399	199	199	15801	33.109	2095.4		
404	202	200	16322	33.231	2036.0		

BSORPTION:

Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
kg	kg	%	%	
33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
33.57	32.14	4.28		
33.44	32.24	3.59		

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: CP-2024-06-17-07 Date: 08-08-23

SION ANALYSIS

Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
403	202	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
404	200	199	
400	200	199	
403	200	203	
404	203	202	
400	201	203	
401	203	203	
403	200	202	
401	199	200	
403	202	203	
400	203	200	
400	203	203	
401	200	203	
399	202	203	
402	200	202	
403	200	203	
402	200	199	
403	200	203	
401	199	199	
402	200	203	
402	**201**	**202**	

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Date: 08-08-23

CP 2024-06-17-07

...SIVE STRENGTH

Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
Length	Breadth				
mm	mm	(mm²)	(KN)	N/mm²	(N/mm²)
400	203	81060	311.0	3.8	3.7
404	202	81670	306.7	3.8	
403	200	80672	279.2	3.5	
403	201	81110	284.1	3.5	
403	203	81346	289.4	3.6	
403	201	81121	305.3	3.8	
400	203	81194	308.8	3.8	
404	203	81816	289.0	3.5	

...equirements (Table 2, Clause 5.1, 5.2 and 9.4)

	Compressive strength	
...ade	Minimum average	Minimum Individual units.
5.0)	5.00 N/mm²	4.00 N/mm²
4.0)	4.00 N/mm²	3.20 N/mm²

...ntained are Satisfactory as per Standard Requirements

Asst. Executive Engineer
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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 12-07-23

	:	CP-2024-06-17-07
ame	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
's Reference	:	EE(Project)/Ynk Zone/WO/12/18-19
eceipt	:	08-07-23
ype/Size	:	Solid concrete blocks size (400X100X200)mm
to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
st	:	08-07-23

)ENSITY:

Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
Length	Breadth	Height					
mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
400	100	198	7920	16.632	2100.0	2000.9	Not less than 1800Kg/m^3
400	103	198	8158	14.132	1732.4		
400	99	200	7920	17.188	2170.2		

.BSORPTION:

Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
kg	kg	%	%	
33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
33.57	32.14	4.28		
33.44	32.24	3.59		

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CP-2024-06-17-07 Date: 12-07-23

SION ANALYSIS

Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
403	103	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
401	99	203	
399	101	203	
404	102	199	
403	102	199	
400	99	203	
400	102	200	
400	103	201	
401	100	202	
402	100	201	
402	101	203	
400	102	200	
401	103	200	
402	100	202	
401	101	203	
400	102	201	
403	99	201	
400	99	199	
400	103	203	
400	103	202	
401	**101**	**201**	

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CP-2024-06-17-07 Date: 12-07-23

SSIVE STRENGTH:

Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
Length	Breadth				
mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
400	100	40092	172.1	4.3	4.3
402	101	40589	173.4	4.3	
403	103	41439	180.7	4.4	
401	102	41055	177.8	4.3	
401	100	40256	175.1	4.3	
399	101	40137	172.1	4.3	
402	102	41214	170.2	4.1	
400	102	40789	170.5	4.2	

equirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
ade	Minimum average	Minimum Individual units.
5.0)	5.00 N/mm^2	4.00 N/mm^2
4.0)	4.00 N/mm^2	3.20 N/mm^2

Jrained are Satisfactory as per Standard Requirements

Asst. Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/04/2024

: CP-2024-06-17-07
: "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
: Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
me :
s Reference : EE(Project)/Ynk Zone/WO/12/18-19
ceipt : 15-04-24
ID : RCC
pe /Size : 150X150X150 mm
de/Age : M20 / 7 Days Compressive Strength
to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CL5
: 19/04/2024

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RCC	M20	12/04/2024	19/04/2024	150.65 X 150.57 X 150.89	22684	8.185	324.0	14.3	14.5
RCC	M20	12/04/2024	19/04/2024	150.07 X 150.98 X 150.10	22659	8.843	330.7	14.6	
RCC	M20	12/04/2024	19/04/2024	150.64 X 150.88 X 150.26	22729	8.460	333.8	14.7	

obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2024-06-17-07 **Date: 10/05/2024**

: "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"

: Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054

Reference : EE(Project)/Ynk Zone/WO/12/18-19

ipt : 15-04-24

) : RCC

e /Size : 150X150X150 mm

le/Age : M20 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 10/05/2024

ntification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RCC	M20	12/04/2024	10/05/2024	150.37 X 150.54 X 150.39	22636	8.732	534.9	23.6	23.7
RCC	M20	12/04/2024	10/05/2024	150.81 X 150.06 X 150.90	22630	8.140	538.6	23.8	
RCC	M20	12/04/2024	10/05/2024	150.50 X 150.34 X 150.67	22625	8.708	535.6	23.7	

tained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/08/2023

: CP-2024-06-17-07

: "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"

: Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054

rence : EE(Project)/Ynk Zone/WO/12/18-19

: 23-08-23

: SF Babminton Court

ze : 150X150X150 mm

pe : M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

codes

: 28/08/2023

ation k	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
on Court	M20	21/08/2023	28/08/2023	150.09 X 150.29 X 150.12	22556	8.588	322.9	14.3	14.4
on Court	M20	21/08/2023	28/08/2023	150.42 X 150.02 X 150.59	22566	8.846	316.3	14.0	
on Court	M20	21/08/2023	28/08/2023	150.13 X 150.01 X 150.27	22522	8.592	332.5	14.8	

d are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/09/2023

: CP-2024-06-17-07

: "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"

e : Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054

Reference : EE(Project)/Ynk Zone/WO/12/18-19

ipt : 23-08-23

: SF Babminton Court

/Size : 150X150X150 mm

e/Age : M20 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 18/09/2023

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
minton Court	M20	21/08/2023	18/09/2023	150.67 X 150.11 X 150.95	22617	8.744	524.2	23.2	23.5
minton Court	M20	21/08/2023	18/09/2023	150.20 X 150.01 X 150.11	22531	8.454	528.3	23.4	
minton Court	M20	21/08/2023	18/09/2023	150.96 X 150.03 X 150.35	22647	8.191	537.8	23.7	

tained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro BANGALORE Sig Date

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/09/2023

: CP-2024-06-17-07

: "Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"

: Sri.K.Somappa. No.139/A, 6th Main Mathikere, Bangalore-560054

e : EE(Project)/Ynk Zone/WO/12/18-19

Reference : 28-08-23

ipt : SF Babminton Court

: 150X150X150 mm

/Size : M20 / 7 Days Compressive Strength

/Age : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

BIS codes : 02/09/2023

ification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
inton Court	M20	26/08/2023	02/09/2023	150.51 X 150.90 X 150.87	22713	8.760	327.4	14.4	14.4
inton Court	M20	26/08/2023	02/09/2023	150.65 X 150.69 X 150.52	22701	8.291	330.3	14.5	
nton Court	M20	26/08/2023	02/09/2023	150.19 X 150.07 X 150.06	22539	8.717	318.7	14.1	

ined are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro
Sig .....
Date.....
BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

072924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

IWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
ATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TT/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/09/2023

	:	CP-2024-06-17-07
	:	"Construction of Swimming Pool at Amrutha Nagara Byatarayanapura Ward No.07"
ne	:	Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054
	:	EE(Project)/Ynk Zone/WO/12/18-19
Reference	:	28-08-23
ipt	:	SF Babminton Court
)	:	150X150X150 mm
e /Size	:	M20 / 28 Days Compressive Strength
e/Age	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
BIS codes	:	23/09/2023

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
minton Court	M20	26/08/2023	23/09/2023	150.08 X 150.45 X 150.01	22580	8.801	520.7	23.1	23.4
minton Court	M20	26/08/2023	23/09/2023	150.68 X 150.63 X 150.54	22697	8.277	539.4	23.8	
minton Court	M20	26/08/2023	23/09/2023	150.46 X 150.10 X 150.36	22584	8.383	525.4	23.3	

ained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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****End of Report****

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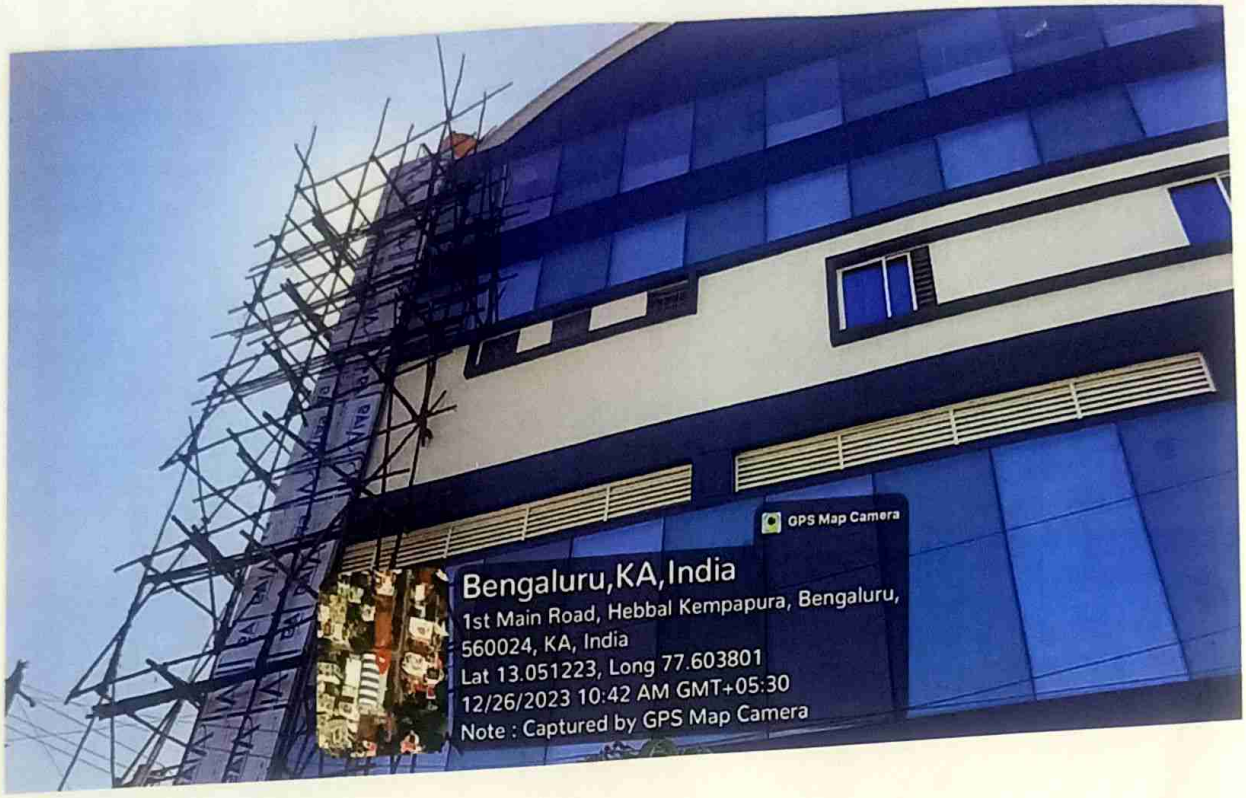
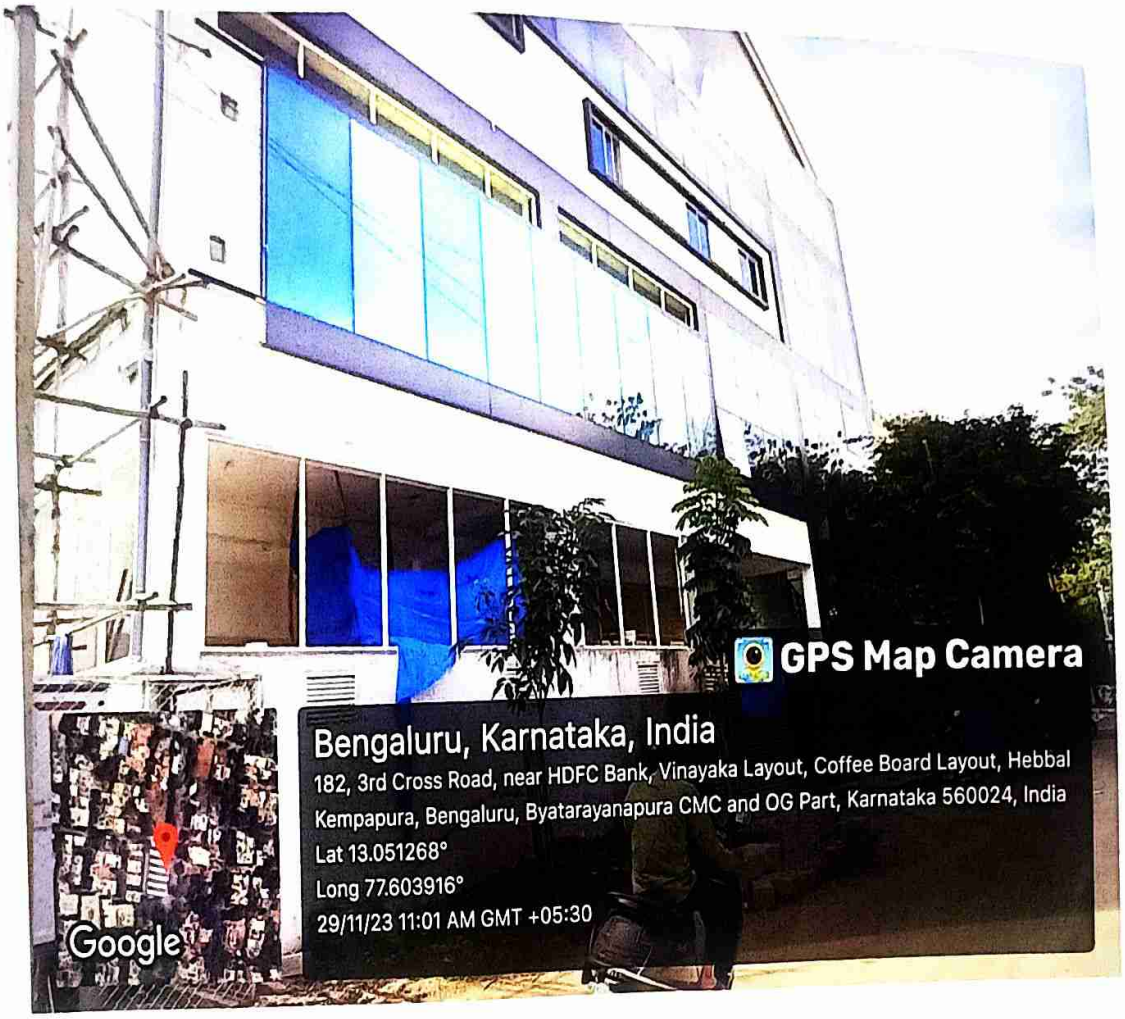
WAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
ATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



Asst. Executive Engineer
Project Division



Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst. Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Engineer
ision
Zone
BBMP, Bangalore - 92

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Project Division
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BBMP, Bangalore - 92

Asst. Executive Engineer
Project Division
Yelahanka Zone

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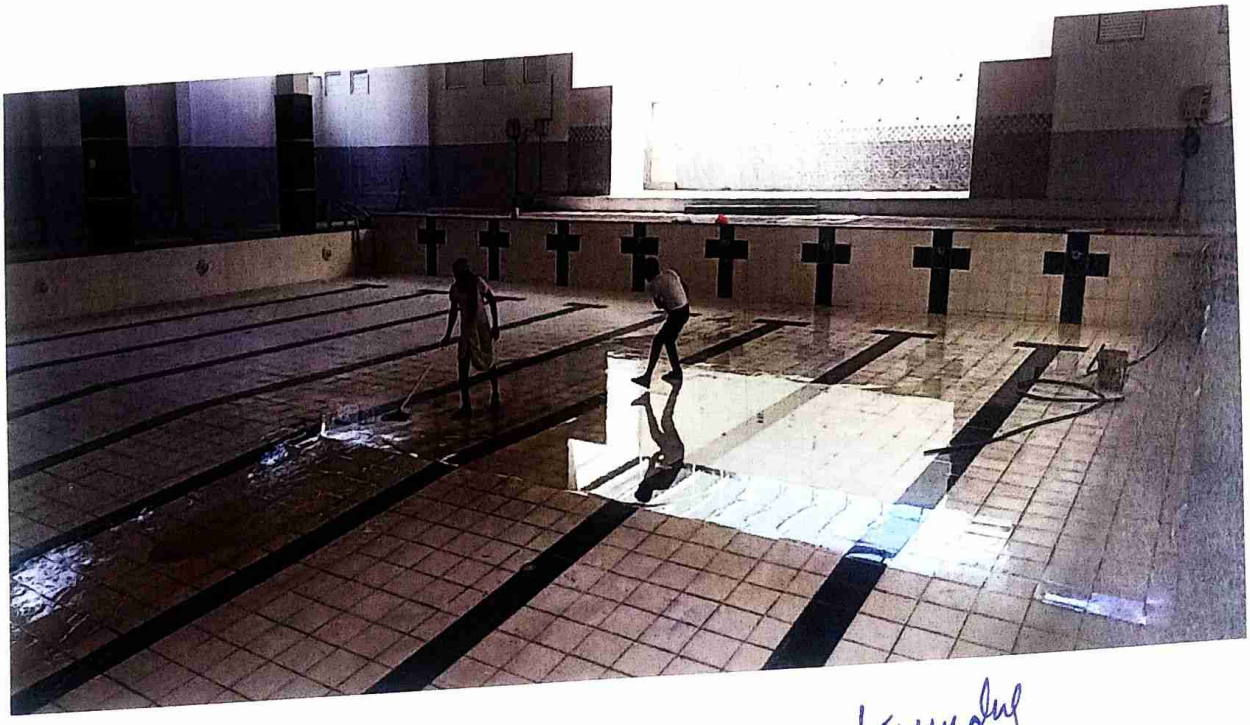
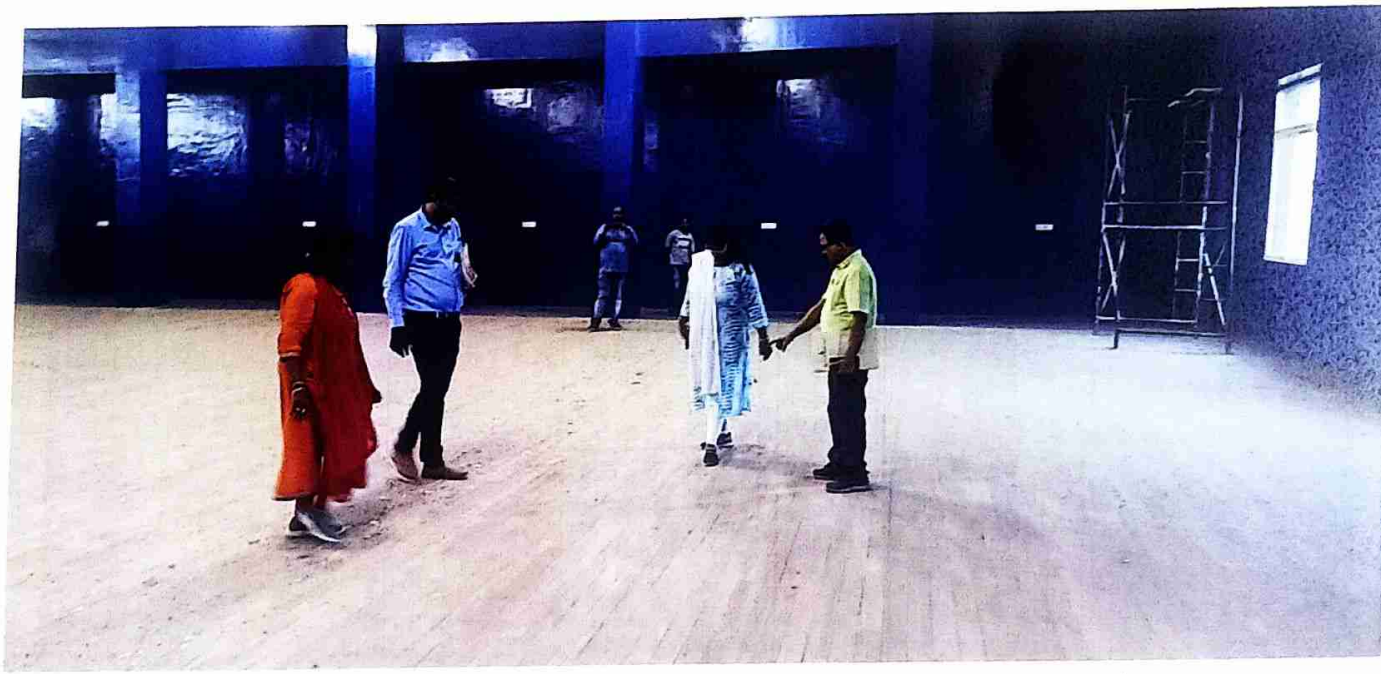
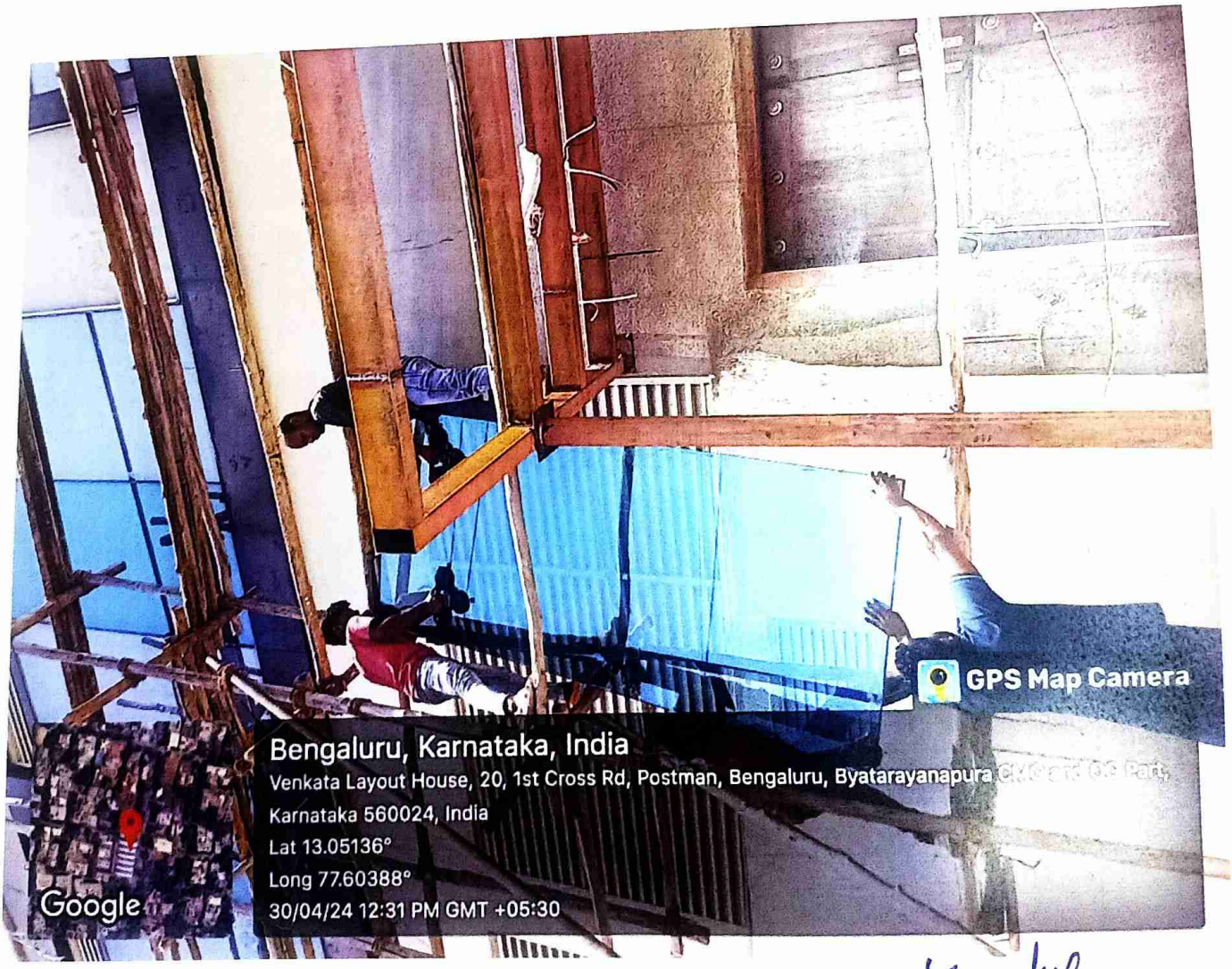
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



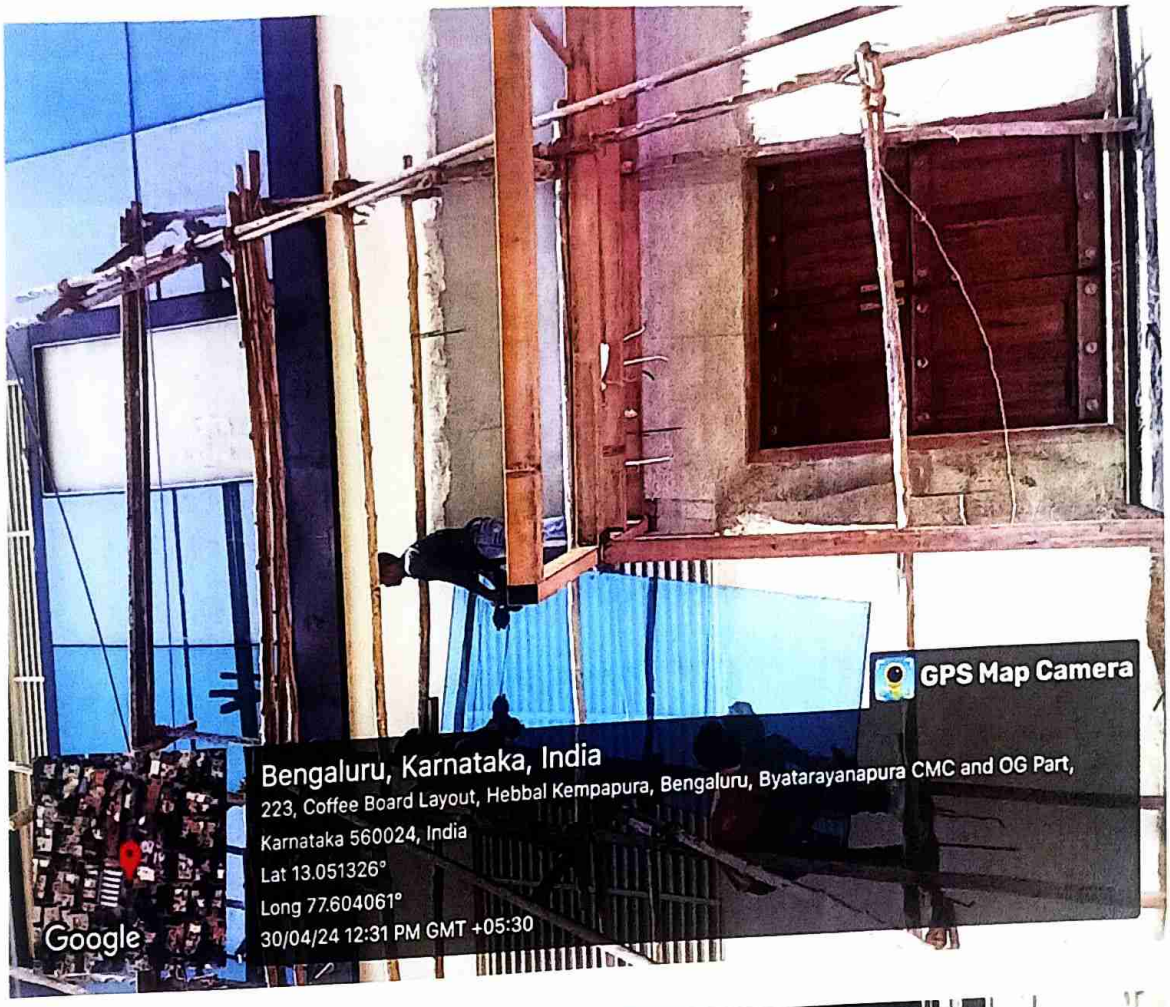
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

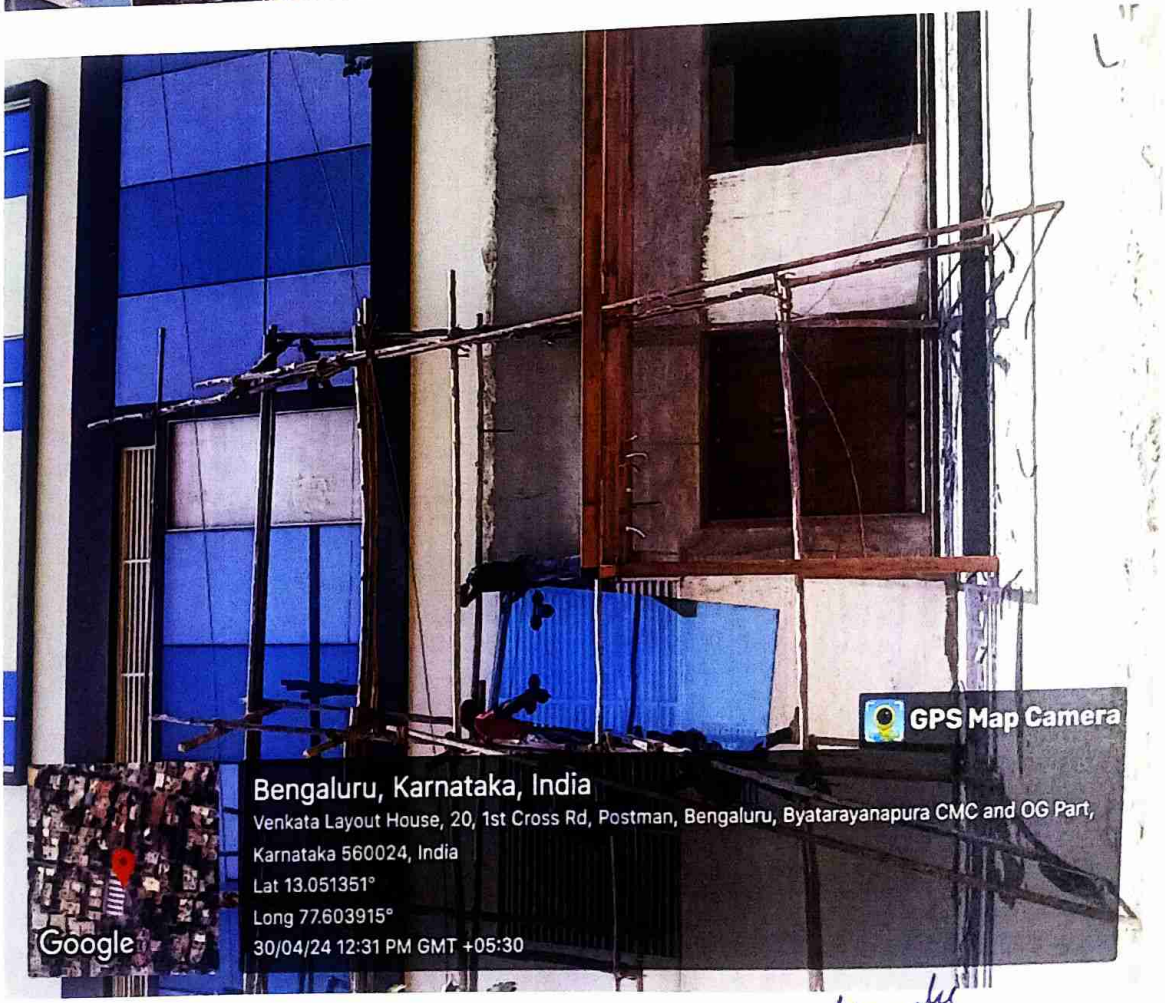


Assistant Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

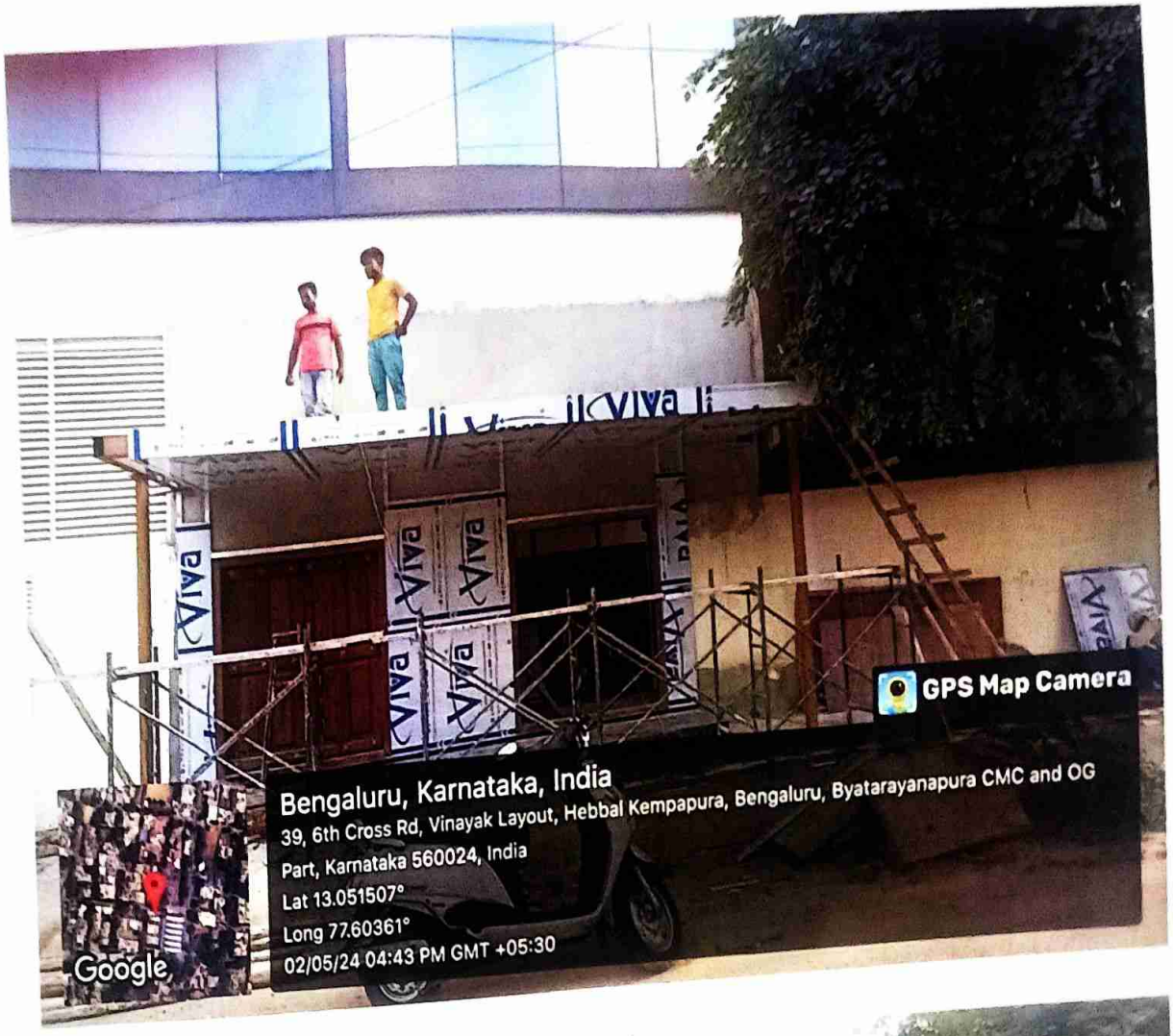


Asst. Executive Engineer
Project Division





Asst. Engineer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Long 77.60361°
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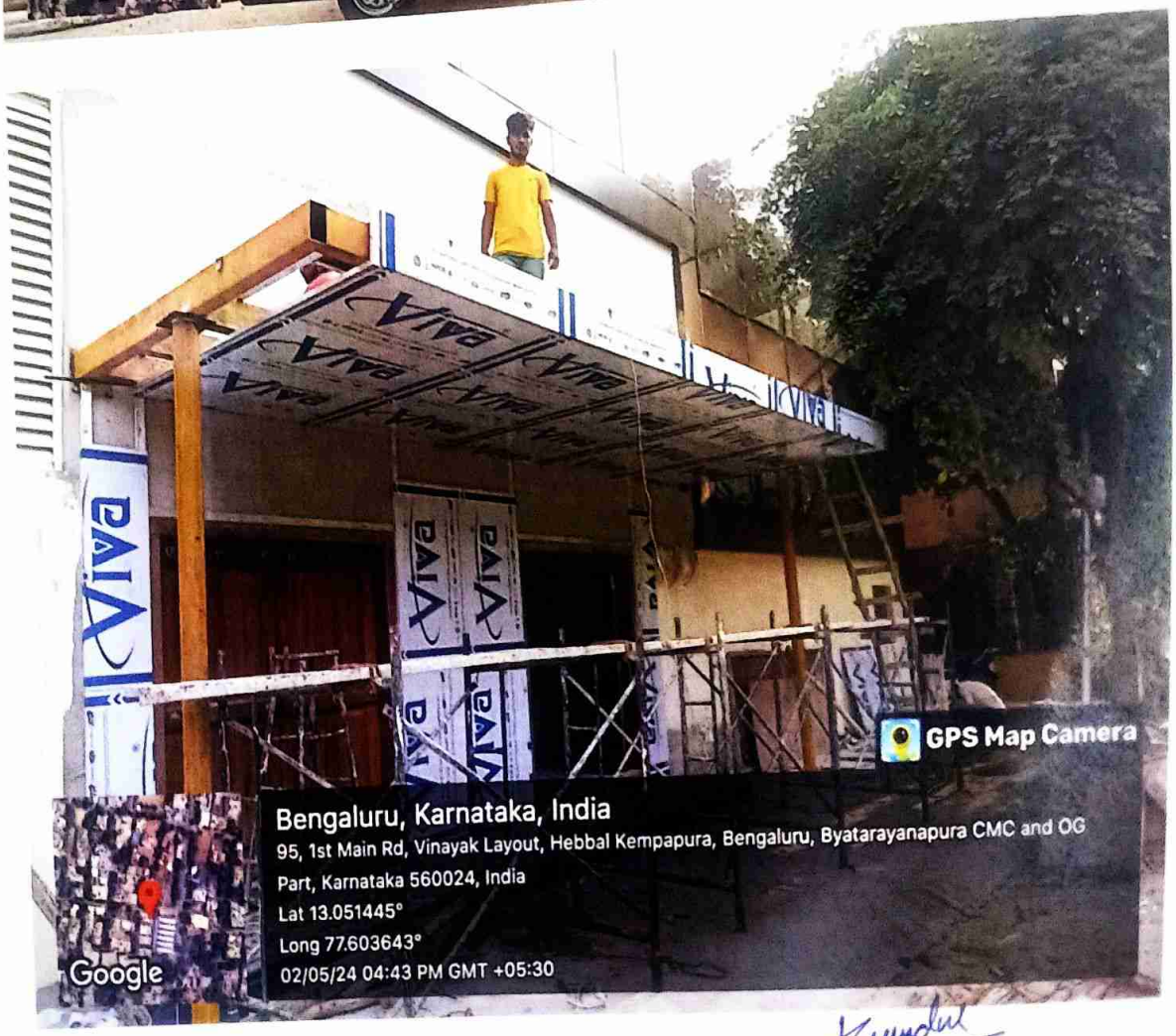
Google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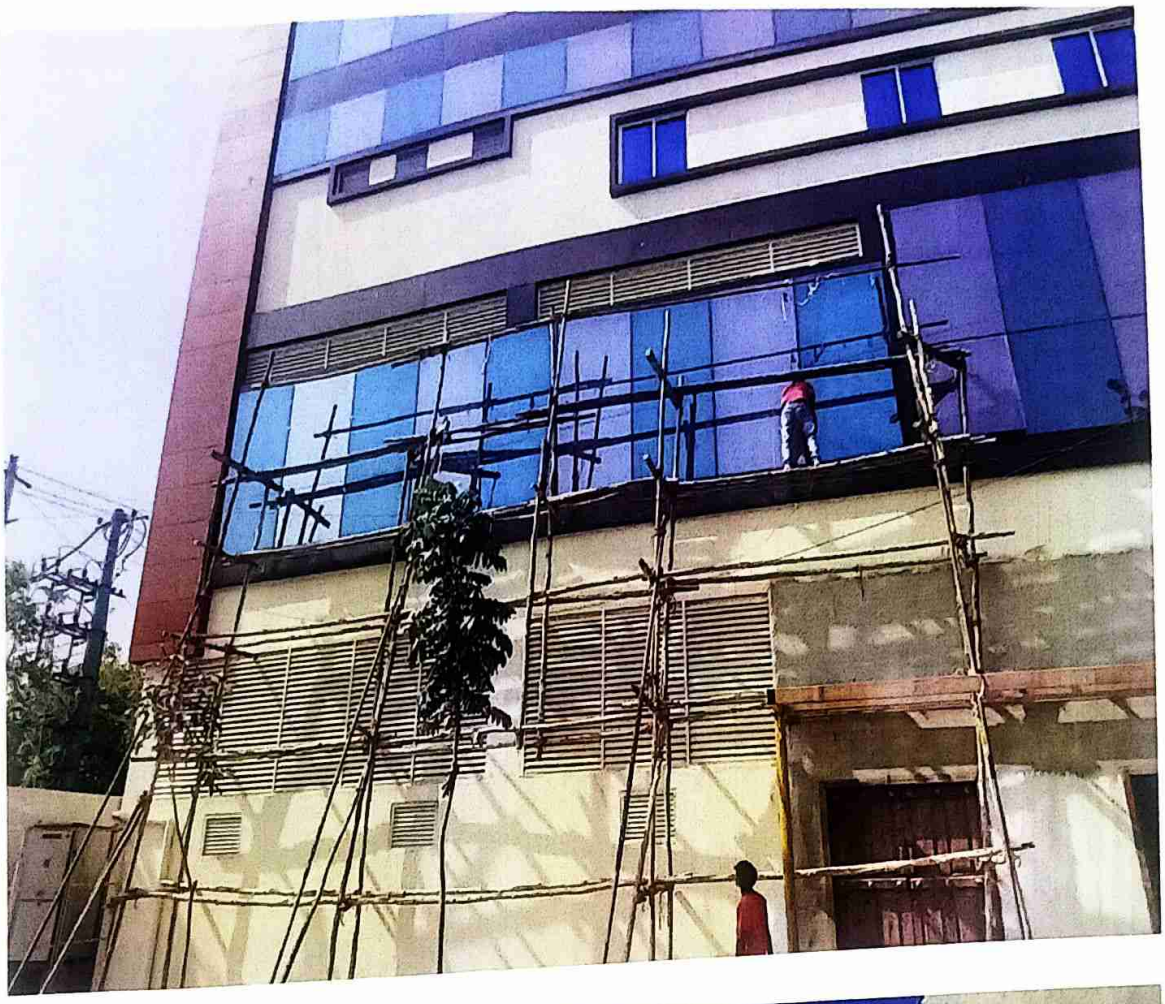
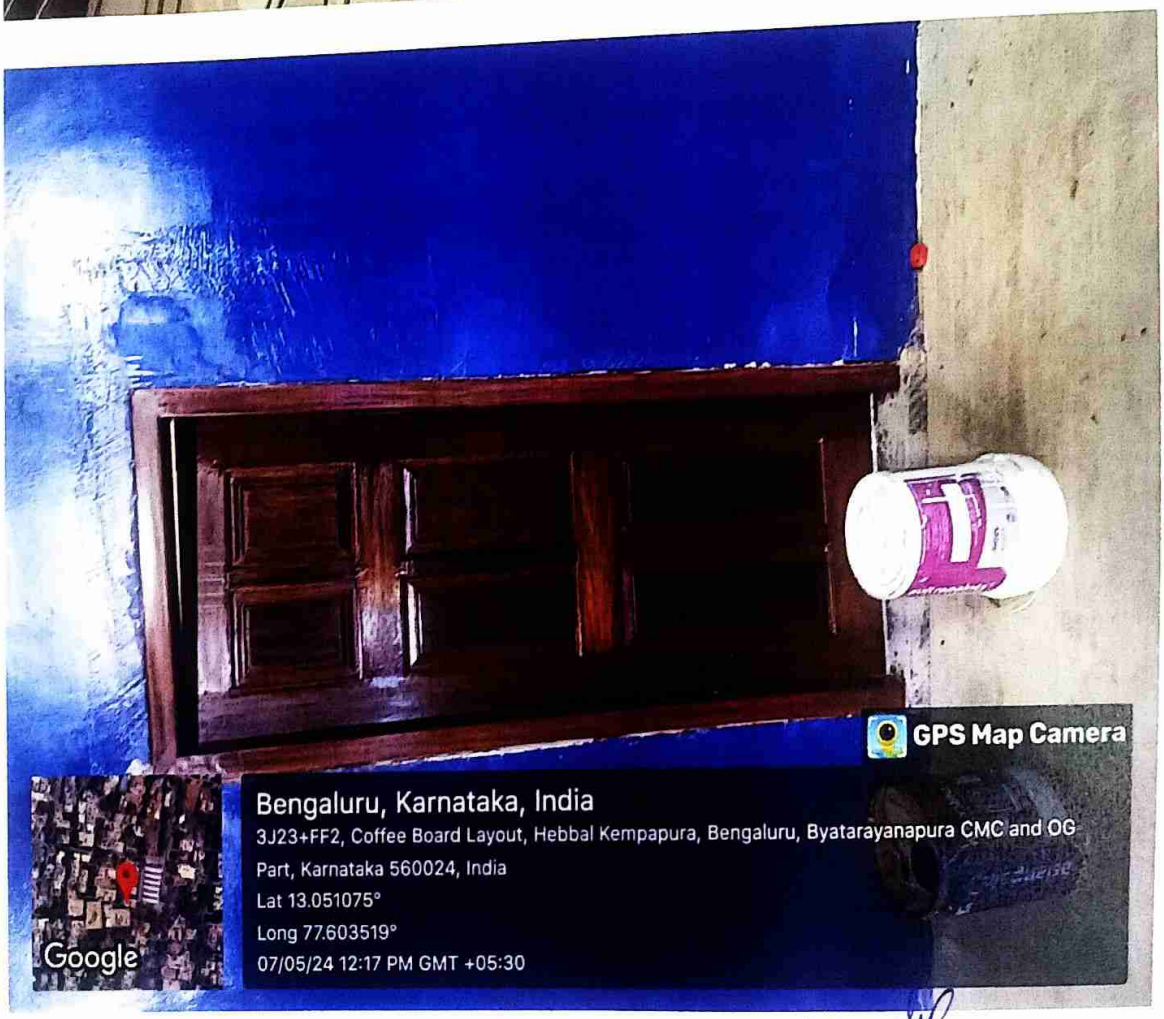
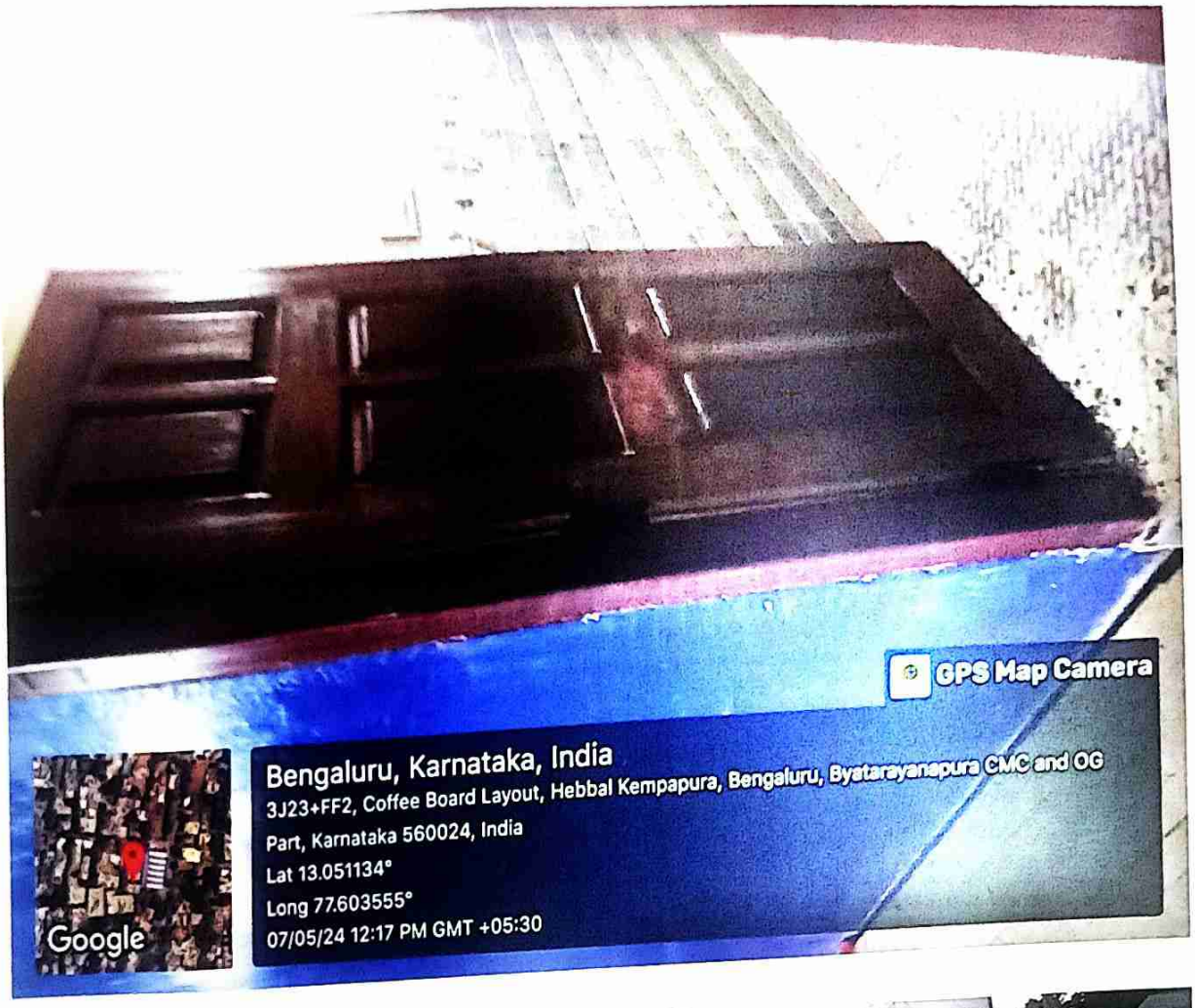
Long 77.603643°
02/05/24 04:43 PM GMT +05:30
Google

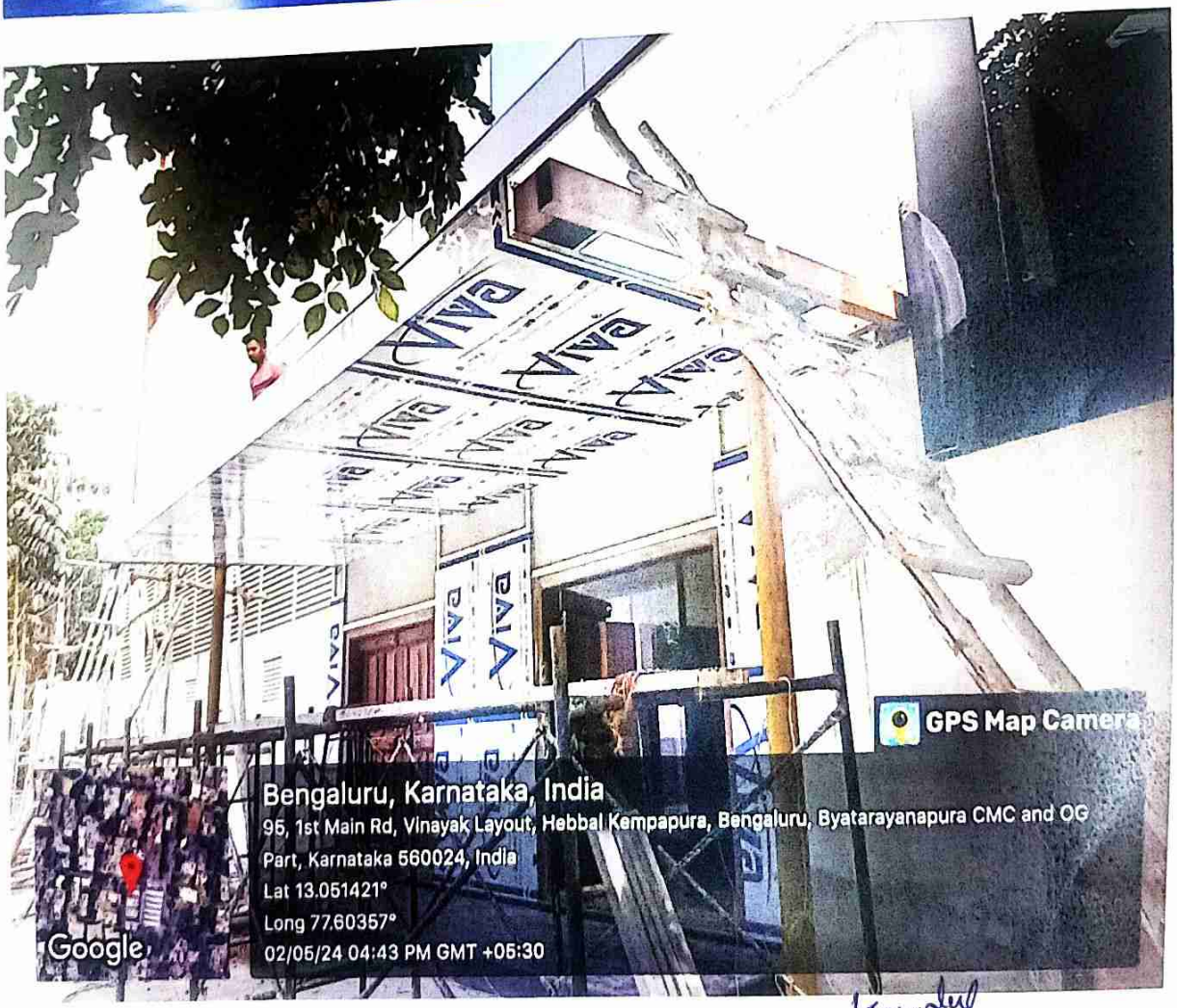
Engineer





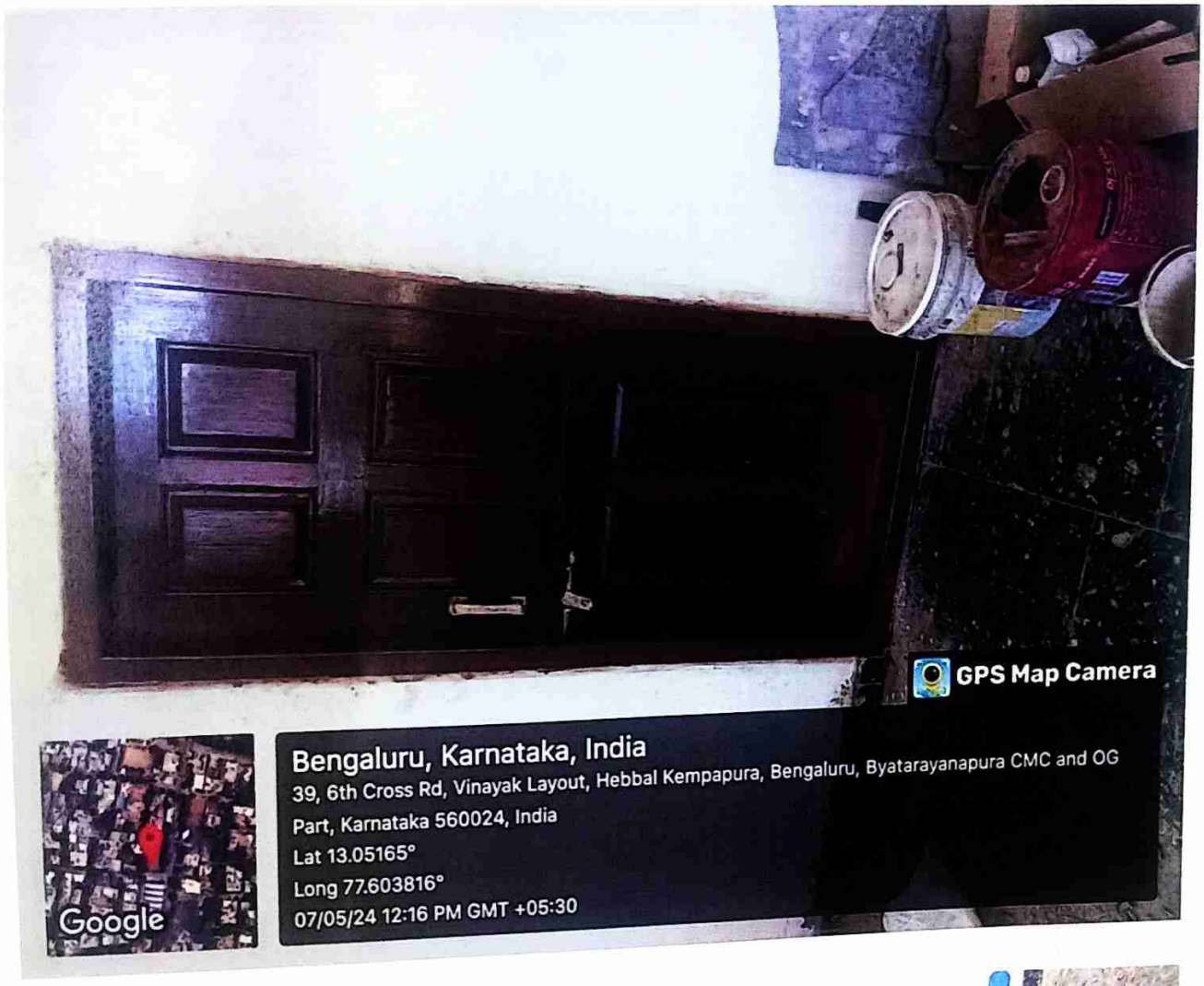
Asst. Engineer
Project Division





Asst. Engineer
Project Division

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92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Bengaluru, Karnataka, India
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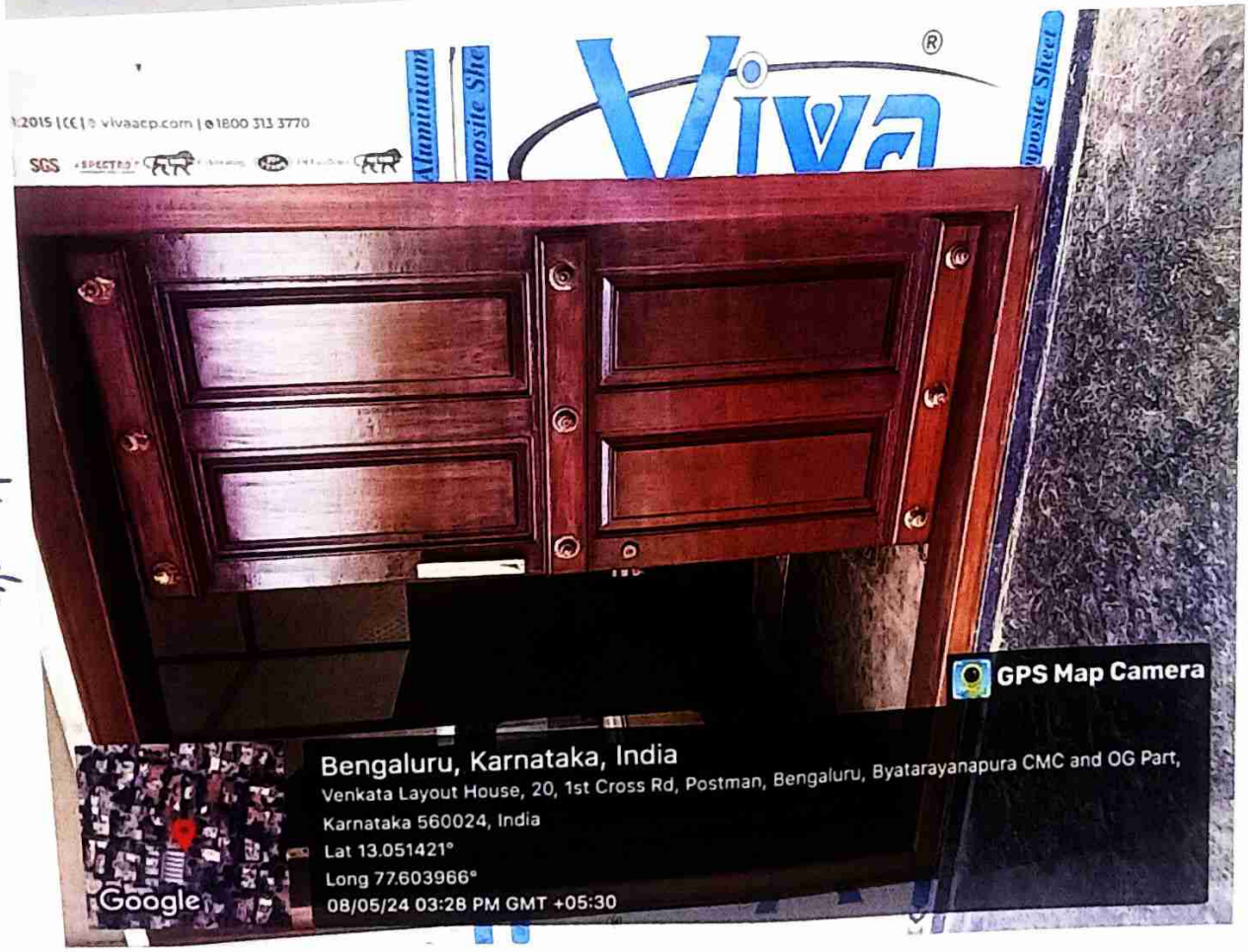
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Venkata Layout House, 20, 1st Cross Rd, Postman, Bengaluru, Byatarayanapura CMC and OG Part, Karnataka 560024, India
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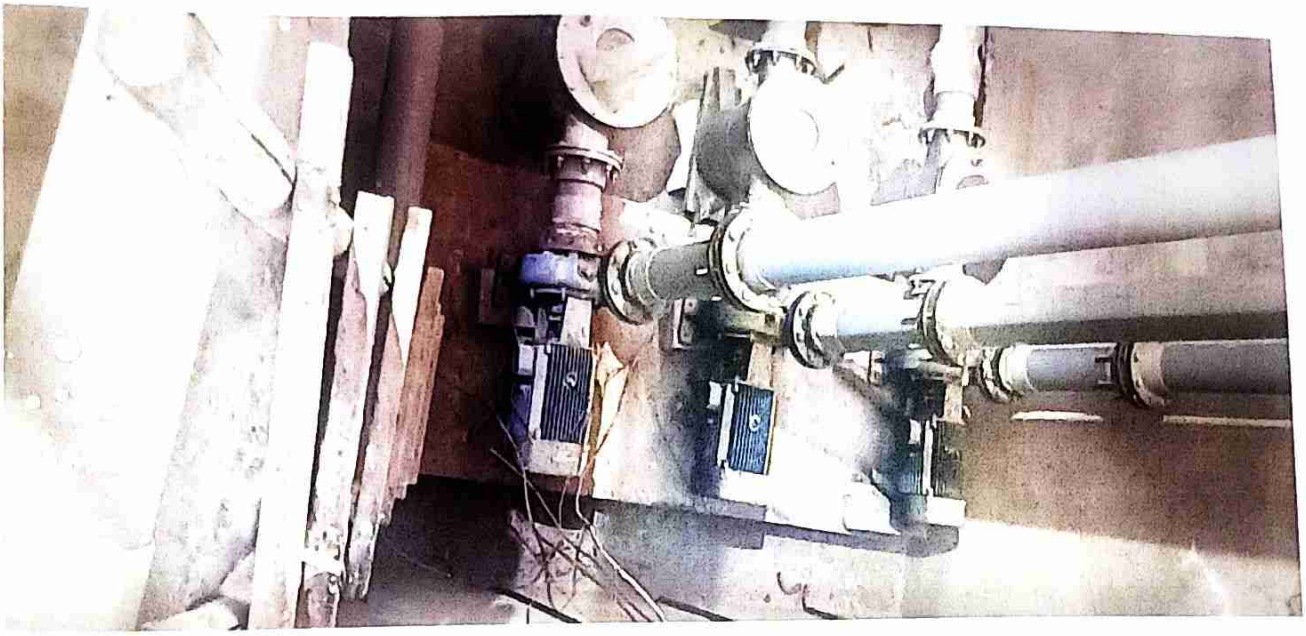
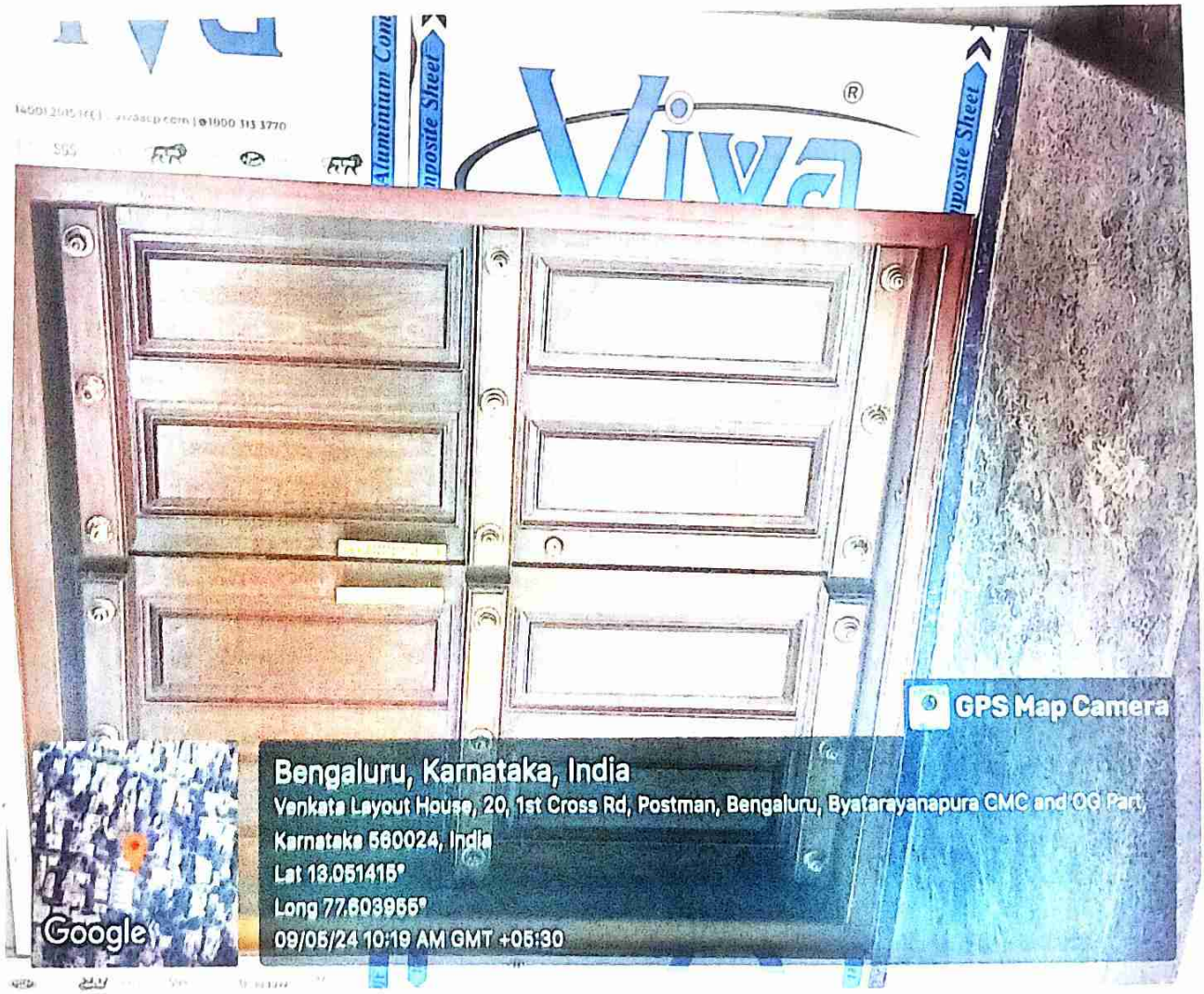
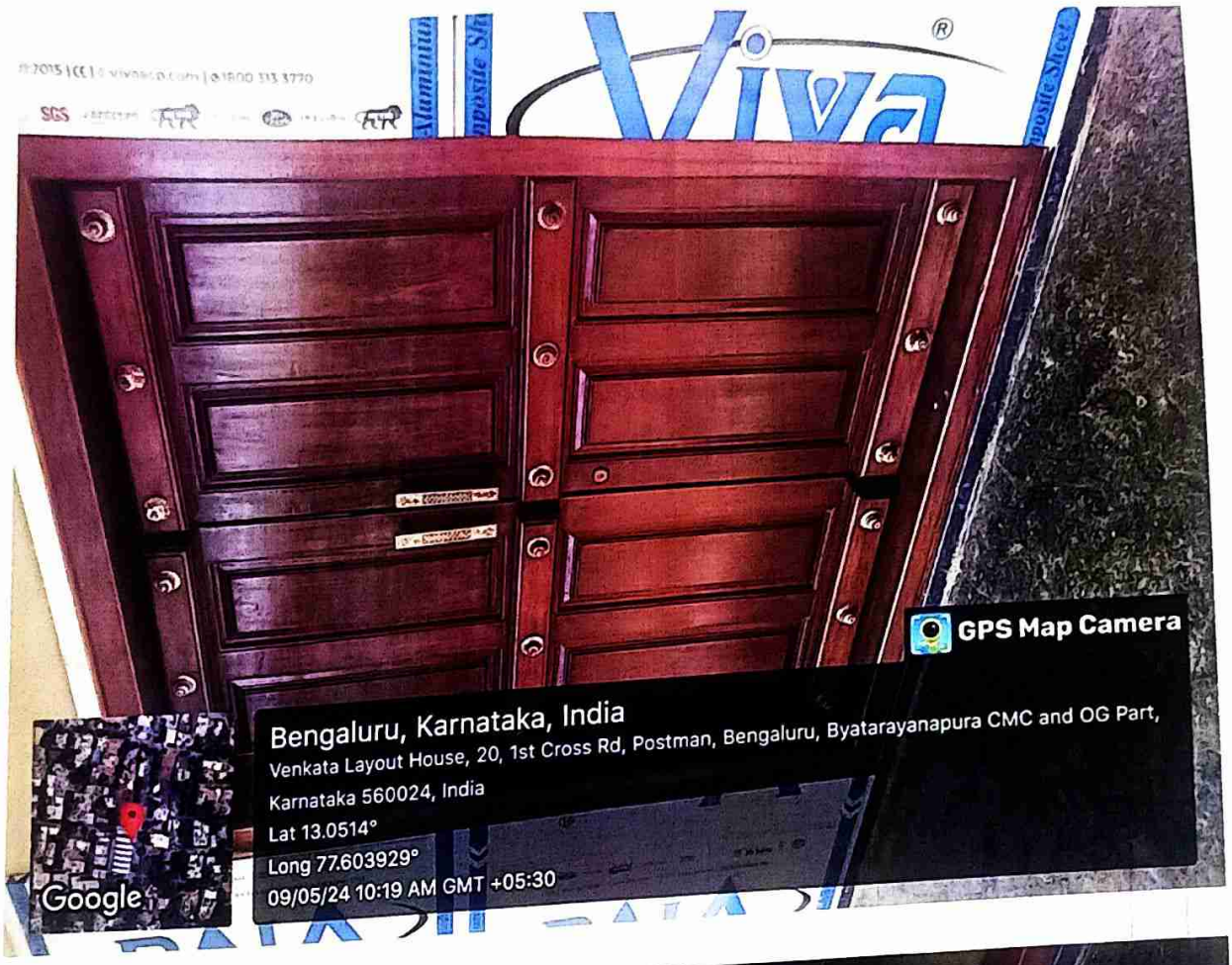
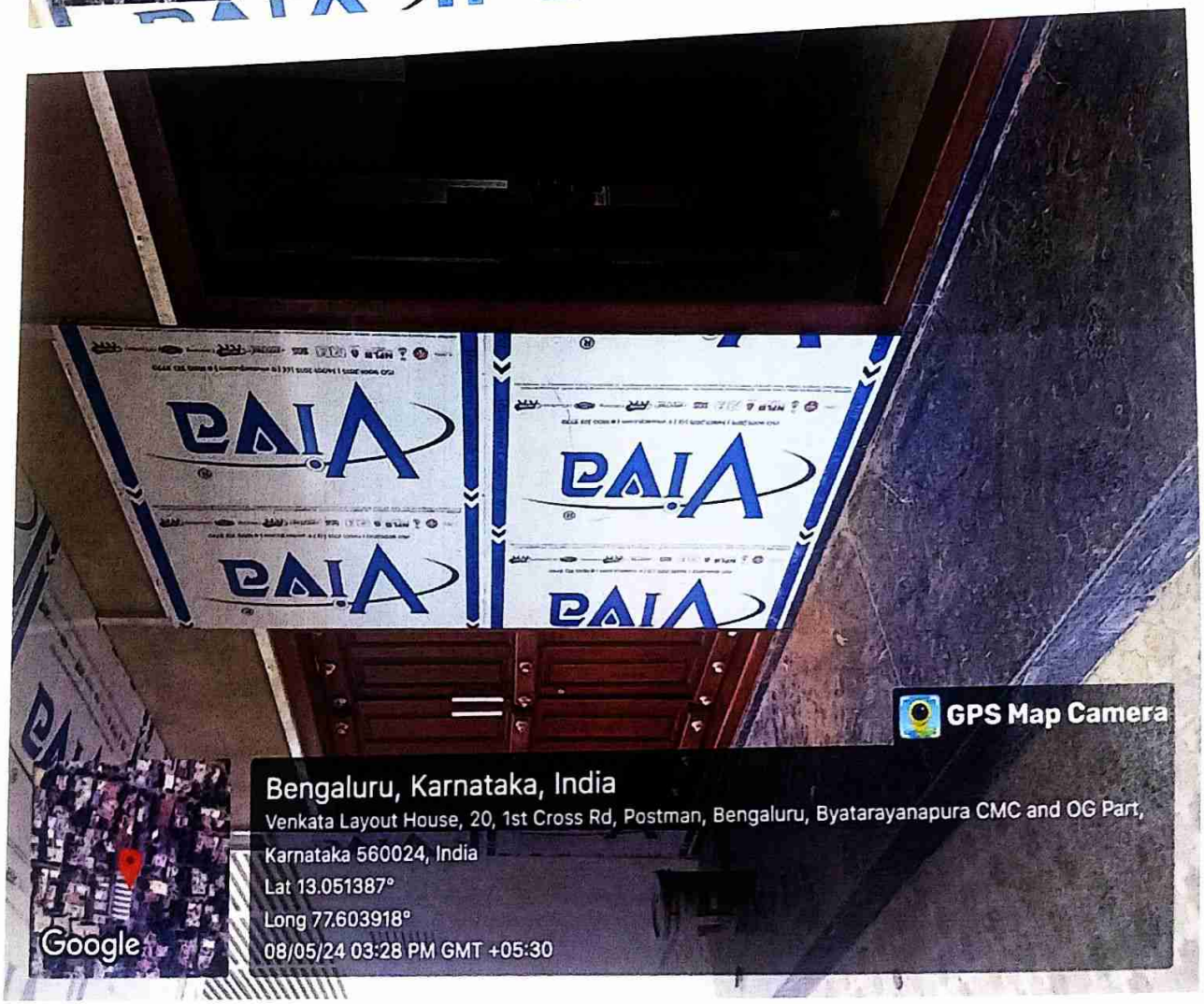




Asst. Executive Engineer

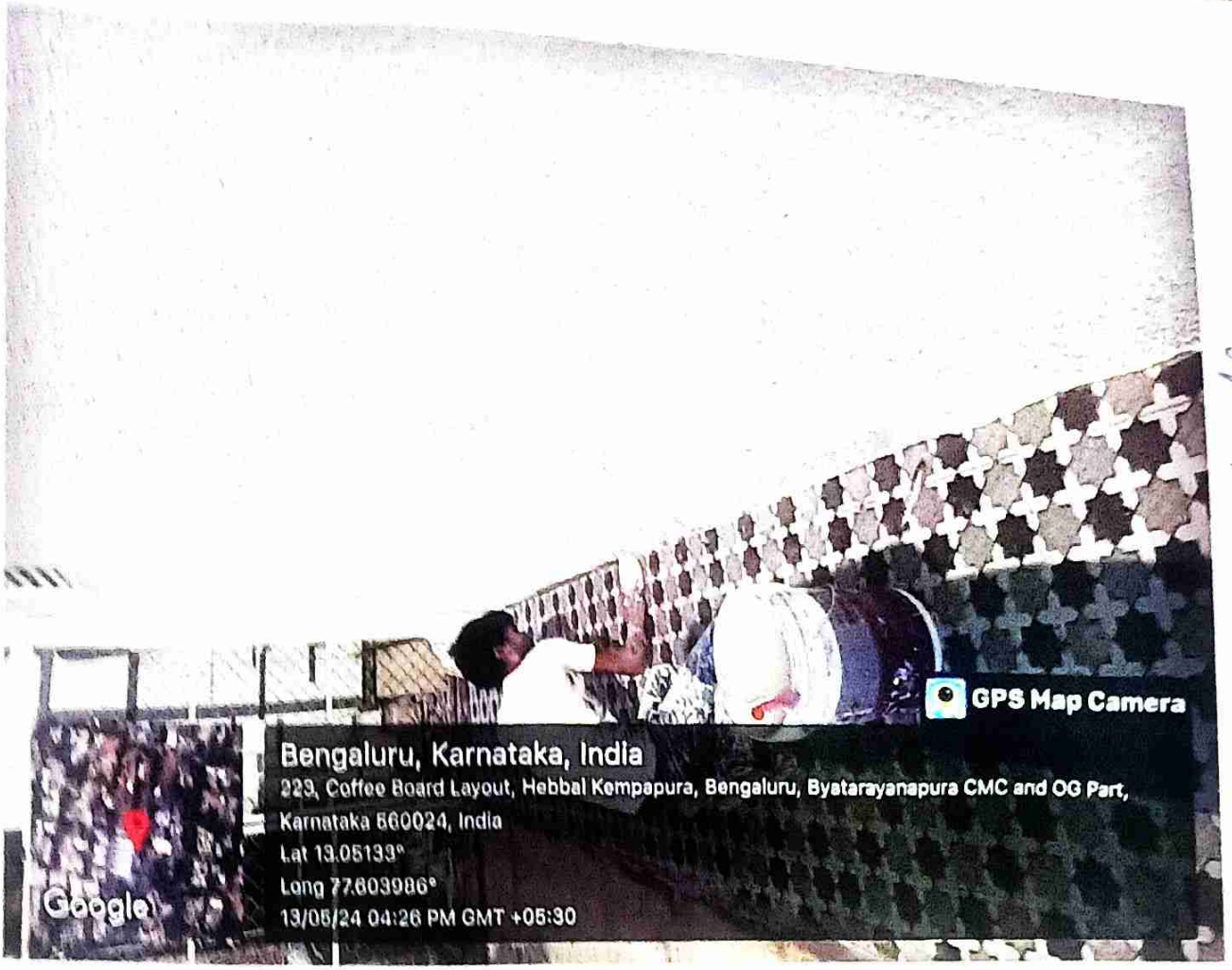




Asst. Ex[illegible] Engineer
Project Division

Asst. Executive Engineer

Ass't Engineer


GPS Map Camera
Bengaluru, Karnataka, India
223, Coffee Board Layout, Hebbal Kempapura, Bengaluru, Byatarayanapura CMC and OG Part,
Karnataka 560024, India
Lat 13.05133°
Long 77.603986°
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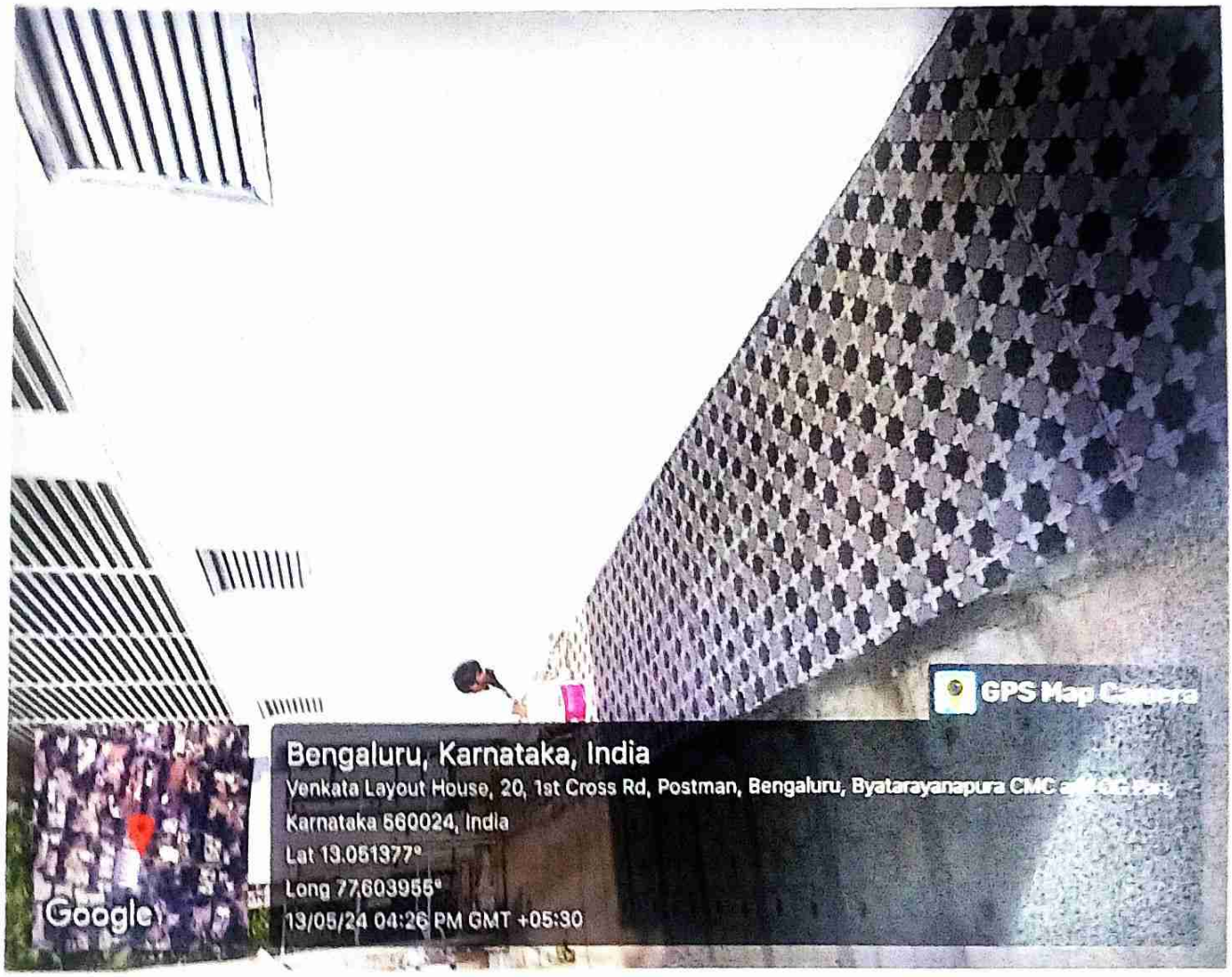
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Karnataka 560024, India
Lat 13.051977°
Long 77.603955°
13/05/24 04:26 PM GMT +05:30
Google

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಯಲಹಂಕ ವಲಯ, ಬೆಂಗಳೂರು-92.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,ಯೋಜನಾ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ,ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

ದೃಢೀಕರಣ ಪತ್ರ

ಕಾಮಗಾರಿಯ ಹೆಸರು:	**Construction of Swimming pool a Amrutha Nagara Byatarayanapura Ward No:07**
ಜಾಬ್ ಕೋಡ್ ಸಂಖ್ಯೆ:	007-15-000059
ಕರಾರು ಒಪ್ಪಂದದ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE/Project/AG.No/12/2018-19 Dated: 07-09-2018
ಕಾರ್ಯಾದೇಶ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE(Project)/Ynk Zone/WO/12/2018-19 Dated: 07-09-2018
ಅಂದಾಜು ಮೊತ್ತ	ರೂ.700.00 ಲಕ್ಷ
ಬಿಲ್ಲಿನ ಮೊತ್ತ (ಭಾಗಶಃ/ಅಂತಿಮ ಬಿಲ್ಲು)	ರೂ. 1,61,96,600/ ಲಕ್ಷಗಳು

****

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, **Construction of Swimming pool a Amrutha Nagara Byatarayanapura Ward No:07**ರ ನಾಮಾಂಕಿತದ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳುವ ಸಂಬಂಧ ಅಂದಾಜು ಪಟ್ಟಿ ತಯಾರಿಕೆಯಿಂದ ಹಿಡಿಮ ಗುಣಮಟ್ಟದ ಕಾಮಗಾರಿಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸುವ ಸಂಬಂಧದ ಎಲ್ಲಾ ಹಂತದ ಪ್ರಕ್ರಿಯೆಗಳನ್ನು ನಿಯಮಾನುಸಾರ ಅನುಸರಿಸಿ, ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ನಿಯಮಾನುಸಾರ ಎಲ್ಲಾ ಹಂತದ ಪ್ರಕ್ರಿಯೆಗಳನ್ನು ಅನುಸರಿಸಿ ಅನುಷ್ಠಾನಗೊಳಿಸಲಾಗಿದ್ದು, ಅನುಷ್ಠಾನಗೊಳಿಸಿರುವ ಸಂಬಂಧ ಎಲ್ಲಾ ಅವಶ್ಯ ದಾಖಲಾತಿಗಳ ಜೊತೆಗೆ ಗುಣಮಟ್ಟ ಪ್ರಮಾಣ ಪತ್ರಗಳನ್ನು ದೃಢೀಕರಿಸಿ ಹಾಗೂ ನಿಜಸ್ಥಿತಿಯ ಅಳತೆಗಳನ್ನು ತೆಗೆದು ಇ-ಅಳತೆ ಪುಸ್ತಕದಲ್ಲಿ ದಾಖಲಿಸಿ ಸಂಬಂಧಪಟ್ಟ ಸಹಾಯಕ ಅಭಿಯಂತರರು ಮತ್ತು ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು 100% Check measurement ಹಾಗೂ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು 25% Check measurement ಗಳ ದಾಖಲಾತಿಗಳೊಂದಿಗೆ ಪಶ್ನಿತ ಕಾಮಗಾರಿಯು ಮೊದಲನೇ ಭಾಗಶಃ/ಎರಡನೇ ಭಾಗಶಃ ಸಂಪೂರ್ಣವಾಗಿ ಪೂರ್ಣಗೊಂಡಿರುವುದಾಗಿ ದೃಢೀಕರಿಸುತ್ತಾ, ಗುಣಮಟ್ಟ ಕಾಮಗಾರಿಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸಿರುವುದರಿಂದ ಕಾಮಗಾರಿಯ ಹಣ ಪಾವತಿಗೆ ಆನ್ ಲೈನ್‌ನಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸಿದ ಎಲ್ಲಾ ದಾಖಲಾತಿಗಳನ್ನು ದೃಢೀಕರಿಸಿ ಅಪ್ ಲೋಡ್ ಮಾಡುತ್ತಾ, ಸದರಿ ಕಾಮಗಾರಿಗೆ ಹಣ ಪಾವತಿ ಮಾಡಬಹುದಾಗಿರುತ್ತದೆ ಎಂದು ಈಮೂಲಕ ದೃಢೀಕರಿಸಿದೆ.

ಸ.ಪ್ರ.ಕಅ

ಸ.ಕಾ.ಪಾ.ಅ(ಯೋ.ವಿ) 31/8/24

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,
ಯೋಜನಾ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ,
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಯಲಹಂಕ ವಲಯ, ಬೆಂಗಳೂರು–92.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,ಯೋಜನಾ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ,ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

ದೃಢೀಕರಣ ಪತ್ರ

ಕಾಮಗಾರಿಯ ಹೆಸರು:	**Construction of Swimming pool a Amrutha Nagara Byatarayanapura Ward No:07**
ಜಾಬ್ ಕೋಡ್ ಸಂಖ್ಯೆ:	007–15–000059
ಪಿ–ಕೋಡ್	P1732 Road Network arterial roads(Project Division) and Major road division)
ಕರಾರು ಒಪ್ಪಂದದ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE/Project/AG.No/12/2018-19 Dated: 07-09-2018
ಕಾರ್ಯಾದೇಶ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE(Project)/Ynk Zone/WO/12/2018-19 Dated: 07-09-2018
ಕಾಮಗಾರಿಯ ಒಟ್ಟು ಅಂದಾಜು ಮೊತ್ತ	ರೂ.700.00 ಲಕ್ಷ
ಬಿಲ್ಲಿನ ಮೊತ್ತ ಭಾಗಶಃ/ಅಂತಿಮ ಬಿಲ್ಲು	ರೂ. 1,61,96,600/-

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ಮೇಲ್ಕಂಡಂತೆ ವಿವರಿಸಿರುವ ಕಾಮಗಾರಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಸದರಿ ಕಾಮಗಾರಿಯು ಯಾವುದೇ ರೀತಿಯಲ್ಲಿ Overlap ಆಗಿರುವುದಾಗಲೀ ಆಥವಾ Duplication ಆಗಿರುವುದಾಗಲೀ ಆಗಿರುವುದಿಲ್ಲ. ಸದರಿ ಕಾಮಗಾರಿಯು ಇತರೆ ಯಾವುದೇ ಕಾಮಗಾರಿಯ DLP (Defect Liability period) ಅವಧಿಯಲ್ಲಿ ಇಲ್ಲದಿರುವುದಾಗಿ ಹಾಗೂ ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ಬೇರೊಂದು ಕಾಮಗಾರಿ ಅಡಿಯಲ್ಲಿ ಆಥವಾ ಇತರೆ ಯಾವುದೇ ಅನುದಾನದಡಿಯಲ್ಲಿ ಕೈಗೊಳ್ಳಲು ಉದ್ದೇಶಿಸಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಂಡಿರುವುದಿಲ್ಲದಿರುವುದಾಗಿ ದೃಢೀಕರಿಸುತ್ತಾ, ಪ್ರಸ್ತುತ ಪಾವತಿಗೆ ಸಲ್ಲಿಸುತ್ತಿರುವ ಕಾಮಗಾರಿಯನ್ನು ಇದೇ ಕಾಮಗಾರಿ ಅಡಿಯಲ್ಲಿ ಅಂದಾಜು ಪಟ್ಟಿಯಡಿಯಲ್ಲಿ ಹಾಗೂ ಇದೇ ಅನುದಾನದಡಿಯಲ್ಲಿ ಅನುಷ್ಠಾನಗೊಳಿಸಿರುವುದಾಗಿ ಈ ಮೂಲಕ ದೃಢೀಕರಿಸಿದೆ.

31/8/24

ಸ.ಕಾ.ಪಾ.ಅ(ಯೋಜನೆ)
A.E.E. (Project)

ಸ.ಅ/ಕಿಅ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,
ಯೋಜನಾ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ,
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು
ಬಿಬಿಎಂಪಿ,

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಯಲಹಂಕ ವಲಯ, ಬೆಂಗಳೂರು-92.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,
ಯೋಜನಾ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ,
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

ದೃಢೀಕರಣ ಪತ್ರ

ಕಾಮಗಾರಿಯ ಹೆಸರು:	**Construction of Swimming pool a Amrutha Nagara Byatarayanapura Ward No:07**
ಜಾಬ್ ಕೋಡ್ ಸಂಖ್ಯೆ:	007-15-000059
ಪಿ-ಕೋಡ್	P1732 Road Network arterial roads(Project Division) and Major road division)
ಕರಾರು ಒಪ್ಪಂದದ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE/Project/AG.No/12/2018-19 Dated: 07-09-2018
ಕಾರ್ಯಾದೇಶ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE(Project)/Ynk Zone/WO/12/2018-19 Dated: 07-09-2018
ಕಾಮಗಾರಿಯ ಒಟ್ಟು ಅಂದಾಜು ಮೊತ್ತ	ರೂ.700.00 ಲಕ್ಷ
ಬಿಲ್ಲಿನ ಮೊತ್ತ ಭಾಗಶಃ/ಅಂತಿಮ ಬಿಲ್ಲು	ರೂ. 4,61,96,600/-

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಸದರಿ ಕಾಮಗಾರಿಯ ಬಿಲ್ಲಿಗೆ ಸಂಬಂಧಿಸಿದ ದೃಢೀಕೃತ ದಾಖಲೆಗಳನ್ನು Financial code ಪ್ರಕಾರ ಪರಿಶೀಲಿಸಿದ್ದು, Pre-audit ಮಾಡಿ ಪರಿಶೀಲಿಸಲಾಗಿದೆ ಎಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸಲಾಗಿದೆ.

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು,
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ.

Construction of Swimming pool a Amrutha Nagara Byatarayanapura Ward No:07 ನಾಮಾಂಕಿತದ ಕಾಮಗಾರಿಯ ಬಿಲ್ಲಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಕೆಳಕಂಡ ಅಂಶಗಳುಳ್ಳ ಮಾಹಿತಿ /ವಿವರಗಳೊಂದಿಗೆ ಎಲ್ಲಾ ಅಗತ್ಯ ದಾಖಲೆಗಳನ್ನು ಪರಿಶೀಲಿಸಿ ದೃಢೀಕರಿಸಿ ಆನ್ ಲೈನ್ ನಲ್ಲಿ ಅಪ್ ಲೋಡ್ ಮಾಡಲಾಗಿದೆ.

ಕ್ರ ಸಂ	ಕಡತದಲ್ಲಿ ಪರಿಶೀಲಿಸಬೇಕಿರುವ ದಾಖಲೆಗಳು/ಮಾಹಿತಿಗಳ ವಿವರ	ಕಡತದಲ್ಲಿನ ದಾಖಲೆಗಳು/ಮಾಹಿತಿಗಳು ಲಭ್ಯವಿರುವ ವಿವರಗಳು
1	ಮೂಲ ಜಾಬ್ ಕೋಡ್ ಪ್ರಮಾಣ ಪತ್ರ/ Original Job Code	007-15-000059
2	ಬಿಲ್ಲಿನ ಎಲ್ಲಾ ದಾಖಲಾತಿಗಳಲ್ಲಿನ ಕಾಮಗಾರಿಯ ನಾಮಾಂಕಿತವು ಮೂಲ ಜಾಬ್ ಕೋಡ್ ನಾಮಾಂಕಿತದಂತೆ ಇರುವ ಬಗ್ಗೆ /Name of work should tally in all documents as per original job code	Same
3	ಅಂದಾಜು ಪಟ್ಟಿ(ಅಭಿಯಂತರರ ಸಹಿ ಮತ್ತು ಮೊಹರುಗಳು)/ Approved estimate with AS/TS seal	Yes
4	ಅಂದಾಜು ಪಟ್ಟ ನಕ್ಷೆ/ಅಳತೆ ಪುಸ್ತಕದ ನಕ್ಷೆ ಒಂದೇಯಾಗಿರುವ ಬಗ್ಗೆ/ Sketch should be same in both Estimate and MB	Yes
5	ಆಡಳಿತಾತ್ಮಕ ಮೆಮೋ ಪ್ರತಿ ಮತ್ತು ದಿನಾಂಕ/Approved AS Memo and Date	BBMP/YZ/EE(Pr)/AS/PR/205/2018-19 Dated: 06-09-2018
6	ತಾಂತ್ರಿಕ ಮೆಮೋ ಪ್ರತಿ ಮತ್ತು ದಿನಾಂಕ/Approved TS Memo and Date	BBMP/CE/TS/YZ/PR/432/2017-18dated: 11-12-2017 Modi TS No: BBMP/CE/MTS/YZ/PR/47/2024-25 dated: 10-07-2024
7	ಡಿಟಿಎಸ್ ಅನುಮೋದನೆ ಪ್ರತಿ/Approved DTS copy	Yes
8	ಟೆಂಡರ್ ನೋಟಿಫಿಕೇಷನ್ ಪತ್ರಿಕಾ ಪ್ರಕಟಣೆ ಜಿಲ್ಲಾ ಬುಲೆಟೀನ್ ಪ್ರತಿಗಳು/Tender Notification, Paper cutting and state or District Bulletin copies	Yes
9	ಆನ್ ಲೈನ್ ಟೆಂಡರ್ ಅನುಮೋದನೆ ಪ್ರತಿ/ Online Tender approval Copy	Yes
10	ಎಲ್ಓಎ ಮತ್ತು ಪಿಎಸ್ಡಿ/ LOA and PSD	-
11	ಕರಾರು ಒಪ್ಪಂದದ ಪ್ರತಿ/Agreement Copy	ಛಾಪಕಾಗದ ದಿನಾಂಕ: 27-03-2018 ಕರಾರು ಒಪ್ಪಂದ ದಿನಾಂಕ: 07-09-2018
12	ಕಾರ್ಯಾದೇಶ/Work order	ದಿನಾಂಕ: 07-09-2018 ಗುತ್ತಿಗೆದಾರರ ಸಹಿ: Yes
13	ಶೆಡ್ಯೂಲ್ ಬಿ/Schedule B	Yes
14	ಜಿಯೋ ಟ್ಯಾಗ್ ಛಾಯಚಿತ್ರಗಳು(ಬಿಡಿಎ)/Geo Tag Photos (BDA)	Yes
15	ಆನ್ ಲೈನ್ ರಸ್ತೆ ವಹಿ/Approved Online road History	Not applicable
16	Standard Tender Document	Enclosed
17	I Measurement Book/EMB shall have Following:	
	• Name of the Work	Yes
	• Work Order No and Date	Yes
	• Date of Pre measurements/ Measurements(RA/Final etc., as the case may be but the dates should be after work order)	Yes
	• Date of pre measurements/Measurements date should be after work order date	Yes
	• Item wise measurement (As per standard recording requirements)	Yes
	• Check measurement with date /Dates by the concerned AEE/EE as per codal requirements	Yes

	• Completion certificate as the case may be	-
	• Sketch recorded in the measurement book (for items/work executed) tallies which sketches as per original sanctioned estimate.	-
	• In case of final bills/claims the agency shall accept in Writing as per codal procedure	-
	• Divisional accounts officials shall check and verify the arithmetical calculation as required under A Code	Yes
18	I) In Case of Deviation of the quantities work Slip/EIRL during execution:	
	• For Deviation in Quantity deviation carried out/ Executed over and above sanction BOQ	-
	• Chief Engineer Inspection Report	-
	• Approval of Work Slip (PWG 45 A code II)	Yes
	• Approval of EIRL (PWG 195 D Code-I)	Yes
	• Acceptance letter by Agency to carry out additional items	Yes
	• Supplementary Agreement (D code-I) (195(8)(9)(10))	-
19	Depending on the quantities Variations and amount modified /revised estimate with administrative approval and Technical sanction details as the case may be	-
	• Name of the Work	-
	• Work order No and Date	-
	• Date of measurements recorded (including pre measurements)	-
	• Check measurement date by AEE	-
	• Acceptance signature of Agency	-
	• SBR No with Date	
	• BR No with Date	BR.No: Date
	• Quantity of recorded items in contract certificate shall tally with the measurement book and BOQ	Yes
	• Statutory Deductions as per prevailing norms code	Yes
20	IV) Other Details:	
	Completion certificates duly certified by the competent authority in case of Final bill (D code) 185(d) (Form PWG- 46- A code-II)	ರೂ.100.00 ಲಕ್ಷಗಳ ವರೆಗೆ ಕಾಪಾಲ ರೂ.100.00 ಲಕ್ಷಗಳ ಮೇಲ್ಪಟ್ಟು (ಅ.ಅ(ಮು.ಅ)
	Penalty in case of delay in completion of Works	-
	EOT(Extension of Time) accorded if any as per norms	Enclosed
	Price adjustment (if the clause included in the tender)	-
	Quality assurance test reports as per MORT & H or other relevant standards(No of test report/results should be on par with the frequency as stipulated in MORTH & H or other relevant standards	-

Account Superintendent
Project Division.

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಯಲಹಂಕ ವಲಯ, ಬೆಂಗಳೂರು–92.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,
ಯೋಜನಾ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ,
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.

ಪ್ರಮಾಣ ಪತ್ರ

ಕಾಮಗಾರಿಯ ಹೆಸರು:	**Construction of Swimming pool a Amrutha Nagara Byatarayanapura Ward No:07**
ಜಾಬ್ ಕೋಡ್ ಸಂಖ್ಯೆ:	007–15–000059
ಕರಾರು ಒಪ್ಪಂದದ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE/Project/AG.No/12/2018-19 Dated: 07-09-2018
ಕಾರ್ಯಾದೇಶ ಸಂಖ್ಯೆ ಮತ್ತು ದಿನಾಂಕ:	EE(Project)/Ynk Zone/WO/12/2018-19 Dated: 07-09-2018
ಕಾಮಗಾರಿಯ ಒಟ್ಟು ಅಂದಾಜು ಮೊತ್ತ	ರೂ.700.00 ಲಕ್ಷ

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ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಯು ಲೋಕಾಯುಕ್ತ/ಸಿಓಡಿ/ಎಸಿಬಿ/ಪಾಲಿಕೆ ಆಥವಾ ಮತ್ಯಾವುದೇ ತನಿಖಾ ಸಂಸ್ಥೆಗೆ ಒಳಪಟ್ಟಿರುವ ಬಗ್ಗೆ ಈ ಕಛೇರಿಗೆ ಈ ದಿನದವರೆಗೂ ಯಾವುದೇ ಮಾಹಿತಿ ಸ್ವೀಕೃತವಾಗಿರುವುದಿಲ್ಲವೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸಲಾಗಿದೆ. ಹಾಗೂ ಸದರಿ ಕಾಮಗಾರಿಯ ಜಾಬ್ ಸಂಕೇತ 007–15–000059 ಅಂದಾಜು ಮೊತ್ತ ರೂ.700.00 ಲಕ್ಷಗಳಾಗಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಯ ಐದನೇ ಹಾಗೂ ಅಂತಿಮ ಬಿಲ್ಲಿನ ಮೊತ್ತ ರೂ. 1,61,96,600/- ಗಳನ್ನು ಪಾವತಿಸಲು ಅನ್ ಲೈನ್ ಮೂಲಕ ಸಲ್ಲಿಸಲಾಗಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,
ಯೋಜನಾ ವಿಭಾಗ, ಯಲಹಂಕ ವಲಯ,
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು.